

PEP27 Seeking Careers

Chad Franz (John Brown Univ.)	ME
Kalena Gatesman (Bucknell)	ME/Management for Engineers
Alexander Harris (LSU)	ME
Cecilia Ingo (LSU)	EE
Luke Judd (UIUC)	ME (Minor: Business)
Donovan Kovalsky (Syracuse)	ME
Brian Krasnoff (Rutgers)	Civil
Benjamin Lareau (UIUC)	ME
Deven Laroche (Quinnipiac)	ME
Jared Singer (Rutgers)	ME
Emelia Stouffer (PITT)	ME (Minor: Math; Cert: Nuclear Engineering)
Eli Strickland (Alabama)	ME
Vincent Szymkowiak (Cedarville)	Computer Engineering (Minor: Bible & CS)
Kylie Weems (ECU)	Environmental Engineering (Minor: Math)
Barrett Wise (VT)	Computational Modeling & Data Analytics

PEP Alumni looking from work:

- <https://www.linkedin.com/in/david-zavracky/>

CS: Computer Science; EE: Electrical Engineering; ME: Mechanical Engineer

Chad Franz

Lowell, AR • chadatnwa@gmail.com • 479-318-9299

Mechanical Engineer

Mechanical engineering student with product development internship experience and 1,000+ hours of CAD expertise across SolidWorks, Creo, Inventor, AutoCAD, and Ansys. Bringing technical design skills, fluid mechanics knowledge, leadership experience, and 700+ hours of boating experience to marine product innovation.

Education

Bachelor of Science in Mechanical Engineering | May 2027

John Brown University | *Siloam Springs, AR*

Awards: Arkansas Governor's Distinguished Scholarship (2023-2025), JB Hunt Scholarship (2023-2026), Chancellor's Scholarship (2023-2026), Chick-fil-A Leadership Scholarship (2023-2024)

Engineering Projects

PEP27 Competition (*Senior Capstone*, Fall 2026): Working in a team of four to design and build a remote-controlled electric boat capable of traveling 2 miles while carrying a 30 lb. payload. Focusing on system integration, ANSYS Fluent CFD analysis, task delegation, and communication with professors.

Product Development Project (*Collaborative Design Lab*, Spring 2026): Took initiative in coordinating a 10-member multidisciplinary team in designing, prototyping (8+ iterations), and testing a product while managing a \$250 development budget.

Balsa Bridge Project (*Mechanics of Materials*, Fall 2025): Designed and built a small-scale bridge to maximize load capacity, leveraging method of joints and finite element analysis to assess structural performance.

Work Experience

Engineering & Product Development Intern, May 2026 – August 2026

Coperion | *Sabetha, Kansas*

- Translated engineering standards and requirements into sheet metal designs in Creo for system integration.
- Developed a standardized BOM through technical research and vendor consultation for implementation.
- Gained hands-on manufacturing experience working alongside assemblers in assembly and fabrication.

Audio Visual Lighting Crew, Aug 2023 - Present

John Brown University | *Siloam Springs, Arkansas*

- Led audio system setup and crew training for 75+ events while troubleshooting technical issues to ensure reliable, seamless operations.

Lake Crew Member & Counselor (Counselor Leadership), May 2023 - Aug 2025

Camp War Eagle | *Rogers, Arkansas*

- Supervised 11–13 campers per session and operated inboard/outboard boats carrying up to 20 passengers, ensuring safety, engagement, and a positive experience.

Team Leader (Manager) & Training Specialist, Oct 2020 - May 2024

Chick-fil-A | *Rogers, Arkansas*

- Supervised teams of up to 18 employees in a fast-paced environment while training staff and contributing to a top 10% national ranking through attention to detail and problem-solving.

Kalena A. Gatesman

Medford, NJ 08055 | kalena123g@gmail.com | (609) 923-6422

EDUCATION

Bucknell University, Lewisburg, PA

Expected Graduation: May 2027

Dual Degree BS; Mechanical Engineering, BM; Management for Engineers

- GPA: 3.92 / 4.0
- Alpha Lambda Delta Honors Society, Tau Beta Pi Engineering Honors Society, Society of Women Engineers

EXPERIENCE

Caterpillar, Peoria, IL

June 2026 – August 2026

Corporate Engineering Intern

- Design and integration of a pre-cooler arrangement into a current production system through CAD modeling and engineering documentation.
- Developed an AI-driven engineering agent to automate the generation of design verification plans from engineering design inputs, improving documentation efficiency and saving 8 hours per project.
- Collaborated with cross-functional engineering teams to evaluate design feasibility, organize implementation strategies, and support product development activities.
- Assisted in electromagnetic compatibility (EMC) testing by preparing test setups, collecting and analyzing data, and documenting results to verify compliance with engineering requirements.

US Naval Research Laboratory, District of Columbia

June 2025 – August 2025

NRIP Intern

- Designed (SolidWorks), built (3D printing) and tested new radiator fan designs for a commercial fuel cell heat exchanger system, resulting in a 59% improvement to parasitic power consumption
- Designed and executed an experiment that revealed a 50% lower cost, and 17% lighter weight radiator which could provide the same cooling performance as the commercial fuel cell's radiator when paired with an optimal fan
- Executed experiment, collected data and analyzed the results to determine a new fuel cell operation setting that improved fuel efficiency by 15%
- Curated and interpreted results from an independently led project and presented to a technical audience

Bucknell University, Lewisburg, PA

August 2024- Present

TLC Study Group Leader (Calc 1, Differential Equations)

- Create weekly plans for hands on and engaging study group meetings
- Assist students with any topics they were struggling with so they can gain confidence and mastery
- Collaborate with other TLC coworkers to ensure all students got the same welcoming experience

Deerbrook Swim and Tennis Club, Medford, NJ

Summers: 2020 –2024

Assistant Swim Coach

- Instructed children ages 3-13 how to perform the main four competitive strokes
- Managed swimmers' times and results of the meets in order to configure the line up to maximize the swimmers' strength

LEADERSHIP AND COMMUNITY INVOLVEMENT

Bucknell University, Lewisburg, PA

August 2023 – Present

NCAA Division 1 Student Athlete – Women's Rowing

January 2024 – Present

- Achieved team and individual boat success, 2nd in Patriot League, by collaborating with both teammates and coaches on and off the water
 - Balanced a packed schedule, competing both Fall and Spring Semesters and training 20 hours a week, demonstrating the ability to manage time efficiently and effectively
 - Served as Team Captain 2024-2025 and 2026-2027 to help bring together a changing team with new policies and coaches
- Honors/Awards: 2x CSC Academic All-District ('25, '26), First team All Patriot League, Academic All Patriot League

Athletics Leadership Institute –Leaders Round Table

August 2024 – Present

- Engage in meetings to focus my leadership both as a student athlete and person
- Complete online and in person activities to advance leadership skills and earn a leadership certificate

ADDITIONAL INFORMATION

- *Skills:* MATLAB, Creo, SolidWorks, AutoCAD, 3D printing, Design for Manufacturing, General Dimensions and Tolerancing, Data collection, Experiment design, Communication, Teamwork
- *Interests:* Triathlons, Tennis, Crochet, Skiing, Traveling (Been to 20 countries outside the US)

Alexander L. Harris

Denham Springs, LOUISIANA | (225) 347-1825 | ahar289@lsu.edu

EDUCATION

College:

Louisiana State University (LSU), Baton Rouge, LA
Bachelor of Science, Mechanical Engineering

May 2027
GPA: 3.51

Related Coursework:

Manufacturing Processes
Fluid Mechanics
Electronics

Thermodynamics
Strengths
Simulated Methods

System Dynamics
Machine Design
Material Selection

Minor: Business Administration
Accounting
Management

Finance
Marketing

Other Universities:

Southeastern Louisiana University (SLU), Hammond, LA

Aug. 2021 - Dec. 2022

Brown University, Providence, RI

Aug. 2020 - Aug. 2021

High School:

Denham Springs High School, Denham Springs, LA

Aug. 2016 - May 2020

EXPERIENCE

Calibration Technician and Quality Assurance Personnel

May 2023 – Present

JM Test Systems, Baton Rouge, LOUISIANA

- Work as a calibration technician for mechanical pressure instruments that required repairing, maintaining and calibrating devices in accordance to standards of NIST, A2LA, and ISO/IEC 17025 for companies involved in oil refinery, HVAC systems, manufacturing, and other industries
- Work as quality assurance personnel over metrology laboratory equipment which required cross-referencing customer documentation, equipment data sheet readings, and manufacturing manuals to assure equipment was tested and calibrated according to NIST, A2LA, and ISO/IEC 17025 requirements as well as customer specifications

LHSPLA Official

Jan. 2021 - Present

Louisiana High School Power Lifting Association

- Serve as an official of LHSPLA requiring up-to-date knowledge of the current rulebook and discernment on multiple aspects of the process while being able to offer guidance as to better the coaching staff and participants

Collegiate Athlete (Football)

Aug. 2020 - Dec. 2022

Brown University and Southeastern Louisiana University

- Dedicated upwards of 30 additional hours towards a team including practice, fitness, and meetings for the betterment of the organization while balancing coursework

SKILLS

- **Software:** Solidworks, Fusion 360, Onshape, Microsoft Office Suite, MatLab
- **Hardware:** Milling, MIG welding, carpentry, hand lathing, automotive maintenance

ACTIVITIES

Sunday School Class Leader - First Baptist Church Denham Springs

Cecilia Ingo

(315) 542-7546 | ctenshi05@gmail.com | www.linkedin.com/in/cecilia-ingo

EDUCATION

Louisiana State University (LSU), Baton Rouge, LA

Bachelor of Science in Electrical Engineering

May 2027

GPA: 4.19

Minor: Computer Engineering

Related Coursework: Circuits, Electronics, Digital Logic, Electric Power, Digital Signal Processing, Signals and Systems, Radio Frequencies, Programmable Logic Controllers, Microprocessors, Computer Organization.

EXPERIENCE

Undergraduate Teaching Assistant

August 2026 – Present

Louisiana State University College of Engineering, Baton Rouge, LA

- Instruct Digital Logic II lab sections and guide students through hands-on FPGA hardware debugging.
- Mentor students in Verilog HDL and FPGA design, reinforcing FSM architectures, timing constraints, and sequential logic.
- Troubleshoot implementations, evaluate student lab performance, and grade technical documentation.

Defense Electronics Intern

May 2026 – July 2026

Bascom Hunter Technologies Inc., Frederick, MD

- Deployed and debugged FPGA hardware and firmware configurations for defense Electronic Control Units.
- Executed Hardware-in-the-Loop testing using Code Composer Studio, Altium Designer, and Python to verify system performance against defense specifications.
- Authored formal Verification Test Procedures and generated comprehensive test logs to ensure compliance with defense engineering standards.

Electrical Engineering Intern

June 2025 – July 2025

American Engineering Corporation, Okinawa, Japan

- Shadowed DDC and Fire Systems engineers during software programming, on-site testing, and commissioning.
- Programmed and debugged PLC ladder logic to automate industrial control systems.
- Completed 20+ hours of AutoCAD training, drafting isometric drawings, floor plans, and electrical layouts.

Facility Assistant

Fall 2025 – May 2025

Louisiana State University College of Engineering, Baton Rouge, LA

- Maintained supply inventory tracking to ensure part availability for engineering operations.
- Handled front-office customer inquiries, maintained outreach mailing lists, and supported faculty with daily logistics.

SKILLS

Verilog, Verification Test Procedures, PSPICE, ORCAD, MATLAB, AutoCAD, C++, Microsoft Suite.

PROJECTS

Elevator Controller Project

Digital Logic II – Fall 2024

- Designed and synthesized a Verilog finite state machine on a Basys3 FPGA to control a multi-floor elevator system.
- Integrated safety interlocks, floor-request logic, and precise timing controls for realistic operations.
- Verified sequential logic and timing constraints using behavioral simulations and board-level hardware testing.

ACTIVITIES

Society of Women Engineers (SWE)

January 2025 - Present

- Attended workshops and webinars focused on career advancement and technical skills.
- Coordinated with two committees for a networking event to connect engineering students with recruiters.

Luke Judd

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EDUCATION

University of Illinois Urbana-Champaign

Expected May 2027

Bachelor of Science in Mechanical Engineering, Minor in Business, Dean's List (Fall 2025)

GPA: 3.7/4.0

Passed the NCEES FE Mechanical Exam, Aug 2026

EXPERIENCE

NOAA National Ocean Service

May 2025 – Aug 2025

Lapenta Engineering Intern

Silver Spring, MD

- Ran ocean condition modeling programs in NOAA's operational computing environment to verify a developing Python skill assessment package against the legacy Fortran product ahead of a system overhaul
- Developed a Python script to intake ocean forecast simulation data and generate location specific pass/fail flags, defining the metric used to statistically identify package agreement or computational differences
- Facilitated cross-team reviews to pinpoint and resolve data intake and analysis bugs, raising package agreement by 32 percentage points and confirming a 16% runtime reduction versus the legacy product
- Authored an abstract in coordination with NOS department leadership, presented and published research at the 2026 Ocean Sciences Meeting, and created a skill assessment verification GitHub repository

Illini Solar Car

Sep 2024 – May 2026

Brakes Team Lead

Champaign, IL

- Diagnosed prior brake system failures and set new interface, efficiency, and safety requirements for a full redesign
- Partnered with engineers at Ford to revise safety calculations and develop a standardized analysis workflow
- Designed and implemented multiple brake system assembly options in Siemens NX and presented a Pugh matrix at multi-week design reviews to streamline braking mechanisms, including a specialized bias bar
- Reduced projected assembly weight by 62%, optimizing custom parts by running component FEA before authoring engineering drawings and directing machining processes

PROJECTS

Heptathlon Car | *Fusion 360, ANSYS, Gearing analysis*

Jan 2026 – May 2026

- Developed a robotic car assembly in Fusion 360 alongside a BOM, gear component and impact analysis, and a functioning 4-speed dog clutch constant mesh transmission with remote shifting
- Led fabrication and testing of car chassis and transmission, assembling from laser-cut wood and FDM gears
- Competed in a robot heptathlon across 7 events, achieving 90% gearbox efficiency and 4 kg inclined towing capacity at under half the original design weight with a cost below \$25

Wipe Dropper Walker | *Python, Fusion 360, Human Centered Design*

Aug 2025 – Dec 2025

- Engineered Klann and Strider walking linkages to construct a fully mechanical facilities oriented delivery robot
- Integrated a Whitworth dispensing mechanism into a custom gear train and performed gait and linkage analysis to achieve steady, consistent motion and item delivery with constant 2 meter spacing

Homestead Event Space Renovation | *Fusion 360, Technical Documentation*

Dec 2025 – Aug 2026

- Collaborated with 3 homestead owners and 4 general contracting crews to design a 19,000 sq ft garden and event space in Fusion 360, and create a 3D model and dimensioned engineering drawings for construction reference
- Completed a full remodel featuring 22 irrigation zones and a 200 tree orchard, built, installed, and positioned structures on site while ensuring all operations were consistent with user group needs

TECHNICAL SKILLS

Software: Siemens NX, Fusion 360, ANSYS (FEA, Fluent), MATLAB, Simulink, Python, JavaScript, Git/GitHub, Unix

Manufacturing: GD&T, engineering drawings, CNC, laser cutting, FDM printing, machining, Arduino

LEADERSHIP

Recruitment Director, Makerspace Supervisor

Apr 2025 – May 2026

Triangle Engineering Fraternity

Champaign, IL

- Managed 12 committee chairs and allocated a \$5,000 budget to redesign recruitment strategies with alumni teams, establishing resources for future recruitment cycles and increasing current membership by 26%
- Supervised makerspace operations across a cleanroom and woodshop, maintained safe access, tool readiness, and training for 90+ members, and directed upgrades funded through an alumni and chapter backed budget proposal
- Restored critical equipment including a laser cutter and CNC router, reorganized project space into dedicated workstations, and standardized machining documentation to expand project capabilities

Donovan Kovalsky

DonovanKovalsky@outlook.com • (703) 424-3572 • <http://www.linkedin.com/in/donovan-kovalsky>

EDUCATION:

Syracuse University, College of Engineering and Computer Science **Anticipated Graduation: May 2027**
National Institute of Applied Sciences | Strasbourg, France | Study Abroad Program **Fall 2024**
Bachelor of Science in Mechanical Engineering
College of Engineering and Computer Science Leadership Scholar

SKILLS/INTERESTS:

Applications: Microsoft Excel, MATLAB, Salesforce, SolidWorks, Ansys, R, AutoCAD,
Other: Building Science Principles Certification, Experimental Data Analysis, Materials Testing, Strategic Planning
Interests: Fishing, Skiing, Aviation, Basketball, Washington Sports, Personal Finance

RELATED WORK EXPERIENCE:

Sales Engineering Intern, Carrier Corporation, Ashburn, VA **May 2026 - August 2026**

- Reviewed MEP and building drawings for new-build and renovation projects, evaluated required loads and efficiency targets, and sized and selected Carrier HVAC equipment to meet project specifications
- Coordinated with consulting/MEP engineers and contractors to define project requirements, troubleshoot equipment-compatibility questions, and select Carrier equipment solutions for new construction and replacement applications
- Performed site surveys to assess spatial constraints, ventilation and intake locations, airflow paths, ductwork routing, and existing mechanical conditions to support equipment selection and installation planning
- Improved Salesforce data quality across 200+ accounts by identifying duplicate records, organizing opportunities and contacts, and running reports to support sales tracking and account management

Energy Analyst, Syracuse University, Syracuse, NY **May 2026 - August 2026**

- Conducted state-sponsored energy audits for commercial and residential buildings measuring performance properties such as heating/cooling, electrical conditions, and building envelopes
- Identified energy performance improvement opportunities through building load analysis and documented recommendations in technical reports for building owners and state review, saving up to 30% more energy

RELATED PROJECTS:

Autonomous Maritime Vehicle Capstone Design, ASNE **August 2026 - Present**

- Designing and fabricating steering and mechanical systems using CAD, including subsystem layouts for autonomous waypoint navigation and electric powertrain component integration
- Developing project performance, funding, and scheduling deliverables to communicate design and manufacturing progress through technical slideshow presentations and written reports

Fluid Dynamics Laboratory Project, Syracuse University **November 2025 - December 2025**

- Conducted wind-tunnel testing of different airfoil specimens using pressure tap measurements to calculate lift, drag, pitching moment, and pressure coefficients across varying angles of attack and flow speeds
- Analyzed vortex shedding frequency, wake formation, and boundary layer behavior
- Processed experimental data in MATLAB and Excel, applying linear regression and uncertainty analysis to generate comparative performance plots

PROFESSIONAL EXPERIENCE:

Golf Operations Attendant, Mount Vernon Country Club, Alexandria, VA **May 2022 - August 2025**

- Built strong interpersonal and communication skills through frequent interaction with members and guests while providing consistent, professional service in a customer service focused environment

LEADERSHIP/ACTIVITIES:

Pi Tau Sigma, Member **April 2025 - Present**

- Syracuse's chapter of the National Mechanical Engineering Honor Society

Vice President – Delta Tau Delta, Gamma Omicron Chapter **May 2025 – December 2025**

- Directed a 12-member administrative board, coordinating officer responsibilities and chapter priorities
- Represented the chapter on Syracuse's Greek Life Committee

Brian Krasnoff

(201) 962-6307 | brian1318@gmail.com

Experience

Civil Engineering Summer Intern | C.A.C. Industries, Inc., NYC 2026

- Worked on the Second Avenue Extension Project, expanding subway access into East Harlem
- Filled out daily field logs for 5-10 crews to keep track of the progress of the project, ensure payroll had the correct hours for each laborer, and keep track of field tickets to ensure invoices are correct
- Tracked DOB Permits and posted the proper information was in all buildings with work being done
- Filled out daily quality reports and compiled material testing reports for monthly quality submittals
- Created detail for value engineering proposal of a drywell to be used to drain an access hatch

Civil Engineering Summer Intern | C.A.C. Industries, Inc., NYC 2025

- Worked on the Battery Park Resiliency Project, protecting New York City from future coastal flooding
- Created sketches and took photos of what was installed in order to track material usage, progress, and accuracy of various aspects of the project
- Analyzed construction drawings to check for errors and to do mock takeoffs
- Created safety and construction reports in coordination with project managers and site supervisors
- Created In-Service Sheets and Field Cards for watermain installation using Microsoft Visio

Rutgers University Steel Bridge Team 2023-PRESENT

- President of the Steel Bridge Team for the 2025-26 and 2026-27 academic year
- Collaborated with team to design and fabricate a ~20-foot bridge out of steel using a drill press, circular saw and flux-cored arc welding for the annual competition run by AISC and ASCE
- Led meetings to teach members about the design process, brainstorm bridge design concepts and train members on how to safely use our fabrication equipment
- Create a schedule to meet short and long-term goals, manage the budget, and recruit new members
- Analyzed the design requirements and bridges from previous years' competitions to evaluate successes and failures, in order to maximize structural efficiency and constructability
- As president, placed 3rd in Regional Competition in 2026, best placement by Rutgers since 2013

Graphic Designer | Town of Guttenberg, NJ 2023-2024

- On a monthly basis, designed and created approximately 10 original flyers and calendars to advertise a wide range of town events, primarily for senior citizens

Education

Rutgers University-New Brunswick, NJ School of Engineering | Major: Civil Engineering

Expected Date of Graduation: May 2027

- 3.856 GPA - Richard Weeks Endowed Scholarship and The Moles Scholarship Recipient
- Rutgers Concrete Canoe – Safety Captain, Rutgers Electric Boat – Manufacturing Lead

Skills

- | | | |
|---------------------|---------------------|----------------------|
| • AutoCAD | • OSHA 30 | • Bluebeam |
| • Revit | • STAAD | • Microsoft Excel |
| • Microsoft Visio | • Adobe Illustrator | • Microsoft Word |
| • Autodesk Inventor | • Adobe Photoshop | • Flux Cored Welding |

DEVEN LAROCHE

Fairfield County, CT | 203-590-0320 | Laroched20@gmail.com | linkedin.com/in/devenlaroche

EDUCATION

Quinnipiac University, Hamden, CT

Expected Graduation: May 2027

B.S. Mechanical Engineering

Manufacturing Minor

GPA: 3.4

WORK EXPERIENCE

Lynn Welding Co, Inc.

Sep 2026-PRESENT

Quality Engineering Intern

- Interpret complex aerospace and defense engineering drawings, customer purchase orders, and technical AWS specifications to identify resistance welding and quality requirements.
- Apply **AWS D17.2:2019** and various military, aerospace, and customer-specific welding specifications to determine weld nugget dimensions, welding schedules, and process parameters.
- Analyze material properties, including ultimate tensile strength, thickness, and joint configurations, to identify applicable welding requirements.
- Develop detailed manufacturing travelers using **ECI JobBOSS²**, translating engineering specifications and customer requirements into comprehensive shop-floor welding instructions.

CT Department of Transportation

May 2025-Aug 2026

Engineering and Construction Intern

- Utilized **ArcGIS Pro** and **Excel** to digitize transportation mapping data, develop standardized GIS datasets, and support transportation infrastructure projects throughout Connecticut.
- Performed **GNSS** field surveys using **Carlson BRx7** equipment, collecting, verifying, and documenting highway control points to support mapping, boundary, and transportation engineering projects.

WIQO U.S.

July 2024-Jan 2025

Business Development Intern

- Conducted market research using **HubSpot** and **Excel** to identify prospective customers and support nationwide business development initiatives.

TECHNICAL SKILLS

Engineering Tools & Software: SolidWorks, AutoCAD, MATLAB, ArcGIS Pro, ECI JobBOSS², RStudio.

Technical Competencies: PCB Design, 3D Printing, G-Code Programming, GNSS Surveying

Business Software: Microsoft Excel, Microsoft Office, HubSpot, Canva

ENGINEERING PROJECTS

Society of Automotive Engineers (SAE) Baja Off-Road Vehicle Rear Suspension Redesign

- Collaborated with an engineering team to redesign the rear suspension system of an SAE Baja vehicle, focusing on suspension travel, ride height, durability, and vehicle performance.
- Designed rear suspension components in **SolidWorks**, including camber links, mounting brackets and shocks, while evaluating suspension geometry, component clearance, and assembly integration.
- Developed **CAD** models, engineering drawings, and component specifications to support fabrication, assembly, and future vehicle testing.

Spring Clip Table Stabilizer

- Designed and developed a portable table stabilization device by applying a structured engineering design process including customer research, Quality Function Deployment (**QFD**), concept generation, and design evaluation.
- Engineered a multi-component **SolidWorks** assembly featuring a spring-loaded telescoping mechanism and fabricated a functional 3D-printed prototype.
- Produced engineering drawings, manufacturing documentation, bill of materials, and cost analysis, projecting a \$6.48 per-unit manufacturing cost at a 500-unit production run, and presented the final design and commercialization strategy.

Extracurriculars

Society of Automotive Engineers - Quinnipiac University

Club Rugby, Quinnipiac University - Executive Board, Treasurer

- Oversaw financial operations for team, handling budgeting, payments, and expense reporting.

Benjamin Lareau

Mount Prospect, IL | (312) 549-9203 | benwlareau@gmail.com | portfolio.com

Education

University of Illinois at Urbana-Champaign
Bachelor of Science in Mechanical Engineering

Expected May 2027
Cumulative GPA: 3.13

Projects

Octopod Climber

January 2025-May 2025

- Designed and built an 8-legged walking robot capable of traversing an uneven grassy incline at ~ 8 m/min
- Identified performance limitations and proposed design improvements such as structural reinforcements
- Engineered a modified Theo Jansen linkage to maximize horizontal foot motion, improving speed

Multi-Gear Transmission Robot

August 2025-December 2025

- Developed a robot with a sliding mesh transmission, achieving a high-speed, high-torque, and reverse gear
- Collaborated in a 4-person engineering team to prototype, design and fabricate a competitive robot under time, cost, and size constraints
- Applied finite element analysis (FEA) to reduce mass by 40% while maintaining a safety factor of 2

Automatic Door Lock

August 2023-December 2023

- Designed an automatic door locking mechanism using parametric modeling in Fusion 360
- Generated fully dimensioned engineering drawings with GD&T tolerances for manufacturability
- Estimated investment and production costs to assess economic feasibility and support cost-effective design

Extracurricular

FRC Wildstang Robotics - Mechanical and Electrical Subteams

August 2019-May 2023

- Led the design and fabrication of a robot subsystem from concept through competition
- Integrated mechanical and electrical components to meet performance requirements
- Competed at the FIRST Robotics World Championship (Houston, 2023)

Employment

Northwest Special Recreation Association

Mount Prospect, IL

Inclusion Aid

May 2025-August 2025

- Supported children with diverse disabilities by adapting activities to ensure secure and active participation
- Facilitated inclusive peer interaction through tailored communication and relationship-building strategies
- Collaborated with staff to implement individualized aid programs, improving safety and comfortability

Chick-fil-A

Mount Prospect, IL

Coach

May 2021-August 2024

- Optimized workflow by identifying and improving service delays through reallocation of tasks
- Improved team performance by training employees on efficiency, consistency, and hospitality
- Acted as shift leader by resolving real-time issues and maintaining efficient service under high demand

Technical Skills

Design and CAD: SolidWorks, Fusion 360, Cura, Onshape

Analysis and Computation: MATLAB, Excel, Static Structural FEA (Fusion 360)

Programming Languages: Python, Java, C++, MATLAB

EMELIA STOUFFER

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EDUCATION

University of Pittsburgh, Pittsburgh, PA

B.S. Mechanical Engineering

Minor: Mathematics

Certificate: Nuclear Engineering

August 2024 - May 2028

GPA: 3.77

RESEARCH EXPERIENCE

University of Pittsburgh,

Risk Analysis and Reliability Engineering (RARE) Lab

Pittsburgh, PA

May 2025 - Present

- Developed a Python-based gas network model for the risk analysis of an integrated energy system.
- Conducted uncertainty quantification using Monte Carlo simulation and optimization for the gas network model.
- Integrated a dynamic probabilistic risk assessment model of nuclear energy systems with a large-language model (LLM) to facilitate the extraction of risk information.
- Led the development and presentation of a conference paper, and contributed to a journal manuscript (under review).

NOTABLE PUBLICATIONS

E. Stouffer, A. Kalantari, and T. Sakurahara, "Probabilistic Risk Assessment for Multi-Network Integrated Energy Systems: Gap Analysis and Preliminary Results," Proceedings of the 18th Probabilistic Safety Assessment & Management Conference (PSAM18), Pittsburgh, PA, 2026.

A. Kalantari, E. Stouffer, T. Sakurahara, "Dynamic Probabilistic Risk Assessment for an Integrated Energy System Connected to a Hyperscale Data Center", Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, manuscript under review, 2026.

WORK EXPERIENCE

United States Steel Corporation Research and Technology Center,

Product Testing & Characterization Engineer Intern

Munhall, PA

January 2026 - August 2026

- Conducted simulator trials varying in temper roll elongation and post-batch annealing cycles for 1180DP and 780DP steels to increase fidelity to mill reported data.
- Conducted mechanical tests and analyses on the steel samples to determine their properties.

University of Pittsburgh,

Makerspace Mentor

Pittsburgh, PA

August 2026 - Present

- Assist students with 3D printers, laser cutters, CNC, etc., and fix any machine issues.
- Answer any questions students have regarding manufacturing and design.

University of Pittsburgh,

First-Year Engineering Class Assistant

Pittsburgh, PA

August 2025 - December 2025

- Held office hours, assisted students with coursework, and graded the majority of assignments

LEADERSHIP & EXTRACURRICULARS

Pittsburgh Electric Propulsion,

Mechanical Team Lead

August 2024-Present

- Manage the mechanical team of an electric boat design club, ensuring that all tasks are completed in a timely manner.
- Designed and developed battery, electrical, and software enclosures, structural ribs, lids, and ball/water launcher systems.
- Support the fabrication and assembly of carbon fiber and fiber glass boat hulls and structural components.

Society of Women Engineers,

Elementary Engineering Extravaganza (E3) Chair

August 2024-Present

- Organized and ran the E3 Day focused on increasing STEM engagement among elementary students.
- Attend club events, assist in fundraising, and provide mentorship to new members.

SKILLS

Excel, MATLAB, Python, SolidWorks, Autodesk Fusion360, Ansys, Probabilistic Risk Assessment, CNC, 3D printing

ELI STRICKLAND

251-648-8511 | elihstrickland@gmail.com | Fairhope, AL 36532 | <https://www.linkedin.com/in/es29>

Education	Bachelor of Science in Mechanical Engineering The University of Alabama, Tuscaloosa, AL, May 2027 GPA: 3.75/4.00
Computer Skills	SolidWorks, MATLAB, Microsoft Excel, Studio 5000, Navisworks, ProgeCAD, FactoryTalk View ME, FactoryTalk Linx, RsLinx, AutoDesk ReCap
Relevant Experience	SEACON Engineering Associates, Inc. <i>Mechanical Engineering Intern May 2026 – Aug 2026 Mobile, Alabama</i> <ul style="list-style-type: none">Programmed and commissioned an Allen-Bradley PLC trainer, developing logic for indicator lights, object detection/measurement, and temperature/humidity monitoring.Configured 7 PLC I/O modules, integrated 5 Ethernet/IP devices, and deployed 3 HMI runtime files to an HMI interface.Used 3D laser-scan point clouds to obtain motor-base and shaft geometry and modeled existing equipment for alignment verification to support 5+ paper-machine motor replacements.Developed a repeatable method for aligning scan geometry on 5+ 3D laser scans.Reviewed P&IDs to locate and classify 80+ transmitters in large-scale 3D models.Redesigned a machine turret guard in SolidWorks and created/revised engineering drawings for shop fabrication. Colonial Marine Outboard Repair LLC <i>Outboard Technician Assistant Jun 2024 – Aug 2024 Daphne, Alabama</i> <ul style="list-style-type: none">Collaborated with technicians to diagnose and troubleshoot outboard engines and electronics.Led wiring, installation, and electronic tasks while coordinating with team members to meet customer expectations.Performed routine inspections and maintenance to ensure reliable engine performance. Quality Dock and Seawall <i>Carpenter May 2023 – Aug 2023 Baldwin County, Alabama</i> <ul style="list-style-type: none">Worked closely with a construction team to complete seawall and dock projects under tight timelines.Contributed to problem-solving in field conditions to maintain project progress.Helped ensure piling alignment, structural integrity, and the installation of key dock components.
Project Work	2001 Sea Pro SV2100 Remodel <i>Dec 2024 – Present Daphne, United States</i> <ul style="list-style-type: none">Managed and organized a multi-phase boat restoration project from planning to execution.Made design decisions to improve structural performance and durability.Improved fuel system, repaired stringers, and upgraded the transom structure.
Awards	<ul style="list-style-type: none">Crimson Scholar Merit ScholarshipThe University of Alabama President's List (4.0+ GPA) (Fall 2022, Spring 2023, Spring 2026)The University of Alabama Dean's List (3.5+ GPA) (Fall 2023, Fall 2024, Fall 2025)

Vincent Szymkowiak (BS Computer Engineering)

907-360-7686 | vszymkowiak@cedarville.edu | www.linkedin.com/in/vincent-j-szymkowiak-8143a1328

SUMMARY

I am a Senior Computer Engineering major graduating in Spring 2027. I have experience in both software and hardware design, with focuses on signal processing, electronics, and vehicle systems. Skills include:

- Microcontrollers
- MATLAB, Simulink
- VLSI (Cadence Virtuoso)
- AutoCAD, SolidWorks, KiCad
- Java, Python, C++
- FPGA Implementation
- Wiring
- Team Management
- Computer Architecture

EDUCATION

ABET Accredited Cedarville University

Cedarville, OH

BS Computer Engineering; GPA: 3.7

Anticipated May 2027

Minors: Bible, Computer Science

Honors: Dean's List (FA 2023, FA 2024, SP 2025, FA 2025, SP 2026); President's Scholar Award

EXPERIENCE

Cedarville School of Engineering and Computer Science

Cedarville, OH

Shell Eco Marathon Electrical Team

08/2023–Present

- Team Lead for 2025-26 season
- Design and race ultra-efficient electric and gasoline cars
- Design and implement top level vehicle schematics
- Solved problems quickly at race, and passed technical inspection every year

Promoting Electric Propulsion Autonomous Boat

08/2026-Present

- Rigorous Senior Design Team with goal of building boat from scratch and racing April 2027
- Work across multiple disciplines (Hardware, Software, Mechanical)
- Manage underclassmen interested in helping with the project

ENSTAR Natural Gas Company

Anchorage, AK

Temporary Helper

05/2026 – 08/2026

- Passed Operator Qualification for Natural Gas pipelines
- Performed in-field HDPE fusion
- Operated machinery and safely drove various trucks and trailers
- Assisted welders, pipefitters, and equipment operators

Alaska Railroad

Anchorage, AK

CAD Drafter/Project Student Intern

05/2025 – 08/2025

- Update schematics for signal crossings and PTC houses in AutoCAD
- Work with Signal Engineer to ensure accuracy

Cedarville University IT

Cedarville, OH

Tech-stop Technician

09/2024 – 05/2025

- Desktop and Laptop repair
- General software help, virus removal, data recovery, OS reloads

Brownson Brothers Construction

Anchorage, AK

Earthwork Laborer and Equipment Operator

Summer 2023 & 2024

- Assisted jobsite surveyor, operators, plumbers
- Operated machinery to build driveways, install drainage, etc.

Kylie S. Weems

Greenville, North Carolina | weemsk23@students.ecu.edu | 410-714-9301

EDUCATION

East Carolina University - Greenville, NC

May 2027

Bachelor of Science in Engineering

Concentration in Environmental Engineering

Minor in Mathematics

GPA: 3.96 | Relevant Coursework: Groundwater Hydrology, Water & Wastewater Treatment

Easton High School - Easton, MD

May 2023

GPA: 4.25 | Rank: 3/275

SKILLS & CAPABILITIES

Microsoft Windows

SolidWorks Experience

Civil3D Experience

MatLab Experience

SWAT+ Experience

GIS Experience

WORK EXPERIENCE

The East Group

May 2026 – Jul. 2026

Civil Engineering Intern

- Supported a licensed Civil PE on stormwater improvement projects, contributing to planning analysis, and design tasks.
- Prepared and submitted local permit application, ensuring accuracy and timely delivery.
- Advanced project drawing sets using CAD & GIS software, improving plan quality and documentation efficiency.

ECU Engineering Department Acoustics & Vibrations Lab

Jun. 2025 – Jul. 2025

Undergraduate Researcher

- Worked as part of a research team assisting with all aspects of transport, setup, and use of instrumentation to measure acoustic transmission loss and meteorological conditions in a littoral environment.
- Responsibilities include - data quality monitoring, recordkeeping, troubleshooting.

ECU Center for Sustainable Energy & Environmental Engineering

Jan. 2025 - Present

Undergraduate Research Assistant

- Used modeling program to research effects of climate change on local river basin.
- Developed knowledge in the field of environmental science.

ECU Department of Engineering

Aug. 2024 - Present

Teaching Assistant

- Used previously learned skills to help other students.
- Helped an Engineering professor with administrative tasks for the class.

Weems Brothers, Inc.

Jun. 2022 – Aug. 2025

Administrative Assistant

- Developed administrative knowledge and the financial skills used in running a business.
- Dealt with administrative tasks including paperwork, ordering materials, and finances.

CAMPUS INVOLVEMENT

ECU Club Swimming

Sept. 2023 – Present

Secretary 2024-2025, Vice President 2025-2026, President 2026-2027

Alpha Omicron Pi Sorority

Jan. 2024 - Present

Environmental Engineering Concentration Leadership Council

Nov. 2024 – Present

American Society of Civil Engineers, Vice President 2025-2027

Mar. 2025 – Present

ECU Club Sports Council, Co-President 2026-2027

May 2025 – Present

Tau Beta Pi – NC Z Chapter, President 2026-2027

Oct. 2025 - Present

Barrett Wise

(757) 755-0259 | barrettw@vt.edu | [linkedin.com/in/barrettkwise](https://www.linkedin.com/in/barrettkwise) | barrettw.net

Active TS/SCI Clearance

EDUCATION

Virginia Polytechnic Institute and State University

August 2023 – May 2027 (Expected)

B.S. in Computational Modeling and Data Analytics (Geosciences Focus)

Blacksburg, VA

In Major GPA: 3.3; Minors in Geoscience, Computer Science, and Mathematics

EXPERIENCE

Autoboat at Virginia Tech

Blacksburg, VA

Vice President

April 2026 – Current

- Help guide discussions with fellow officers to make decisions regarding the direction of the club
- Mentor new officers on their responsibilities and how to effectively manage their teams
- Work with the president and business team to advertise the club to new members and sponsors

Telemetry Lead

February 2025 – Current

- Work with a team of electrical and computer engineers on designing and implementing a telemetry system that pipelines sensor data from the boat to a remote server
- Develop a PyQt application which enables real-time monitoring of the boat's telemetry data and provides a user-friendly interface for managing the autopilot system
- Help members with varied technical backgrounds adopt CI/CD tools and workflows and provide guidance on best practices for software development and version control

Member

January 2024 – February 2025

- Applied prior competitive sailing experience to inform the development of the boat's autopilot
- Assisted in creating documentation to accelerate onboarding of new members
- Learned to use ROS2 while experimenting with modifications to the boat's autopilot system

United States Department of War

Joint Warfare Analysis Center

Operations Research Analyst Intern

June 2026 – August 2026

- Developed a methodology to algorithmically identify naval underway replenishment events based on geospatial data spanning multiple years
- Used Python and SQL to develop a multithreaded solution for pulling and analyzing data
- Created an R dashboard with Shiny to streamline analysis of collected data
- Collaborated in a team environment with members from different technical backgrounds
- Briefed high level military and civilian leaders on the project's implementation and potential applications
- Coordinated with analysts, ship technicians, and members of the IC to obtain domain specific knowledge

Virginia Tech Department of Mathematics

Blacksburg, VA

Directed Reading Program (DRP) Participant

September 2025 – December 2025

- Researched non-linear optimization methods under the mentorship of a graduate student
- Investigated optimization algorithms leveraging properties of convex functions
- Developed analytical and problem-solving skills through independent study and structured discussions with mentor
- Presented research findings to peers and faculty members at end-of-semester symposium

PROJECTS

2D Physics Simulator | Python, Turtle Graphics, Git

Summer 2023/2024

- Developed a system for modeling collisions between balls of various diameters and masses
- Implemented using only Python built-in libraries to deepen understanding of the language
- Used multithreading to improve efficiency and stability

TECHNICAL SKILLS

Languages: Python, C/C++ (openMP, MPI, CUDA), R, Javascript/Typescript, Java, Go

Frameworks: Flask, PyQt, PySide, Gunicorn, ROS2

Developer Tools: Git, Docker, L^AT_EX, AWS, Cloudflare, VS Code, R Studio

Libraries: Numpy, Matplotlib, Leaflet, Jupyter, Pandas, Scikit-learn

Other: ArcGIS, Linux/Unix, zsh/bash, SQL, Slurm, VMware, Markdown

PEP27 Seeking Internships

Omar Abu-Zaydeh (Rutgers)	EE & CS
Julie Desautles (URI)	OE
Jacob Dickstein (URI)	OE
Kevin Gomez (UR)	ME
Alexander Harris (LSU)	ME
Nicholas Lyons (URI)	OE
Max Moon (Rutgers)	Electrical and Computer Engineering
Andrew Morris (Longwood)	Physics
Praneil Mukkamala (Rutgers)	ME
Maxim Myshchak (Harvard)	EE & CS
Bill Rettig (UGA)	ME
Luke Saletta (Stevens)	Master's - OE
Elijah Wadsworth (UGA)	ME
Andy Ye (Stony Brook)	ME

Omar Abu-Zaydeh

Monmouth Junction, NJ | P: 732-554-6269 | omar.abu-zaydeh@outlook.com | LinkedIn:
www.linkedin.com/in/omar-abu-zaydeh

EDUCATION

Rutgers, The State University of New Jersey

New Brunswick, NJ

B.S. in Engineering – Electrical and Computer Engineering

Expected May 2030

Relevant Coursework: Integrated Data-Driven Design for Engineering Applications(ID3EA II), Engineering Mechanics: Statics, Calculus II for Mathematical and Physical Sciences, Analytical Physics IB, Engineering Economics, Gen Chem for Engineers, Intro to Experimentation

TECHNICAL PROJECTS

Miniature Catapult, Engineering Capstone Honors - East Brunswick Highschool

Spring, 2026

- Researched and learned about mechanisms behind a Catapult
- Designed and laser-cut wooden parts, designed and 3D printed custom ratchet mechanism
- Assembled prototype using rubber band tension system

LEADERSHIP/INVOLVEMENT

Rutgers Electric Boat

New Brunswick, NJ

Electrical Team Member

September 2026 - Present

- Working toward the development of an electric propulsion and control system designed to power a boat through a five-mile course for the annual national P.E.P. competition hosted by the American Society of Naval Engineers, while gaining knowledge of electrical systems

ISCJ - Weekend Supplemental School

Monmouth Junction, NJ

Principal Assistant

Sept 2024 - June 2026

- Completed assigned responsibilities over the course of two academic school years, which taught me to work in a structured environment, which also strengthened my collaboration skills

SKILLS & CERTIFICATIONS

Technical Skills: CAD (Mainly: Autodesk Inventor), Soldering

Soft Skills: Problem Solving, Attention to detail, Adaptability, Willingness to learn, Collaboration

Certifications: OSHA 30 General Industry | Enrolled | Expected completion: April 2027

JULIE DESAUTELS

Medford, MA | +1 781.539.3172 | julie.desautels@gmail.com | linkedin.com/in/juliedesautels

EDUCATION

University of Rhode Island Kingston, RI
Bachelor of Science in Ocean Engineering and Bachelor of Arts in Chinese Expected Aug. 2028
➤ Five, year dual degree International Engineering Program (year four of five) GPA: 3.47 / 4.00
Study Abroad - Tunghai University, Taichung Taiwan Jun. – Aug. 2025 , Sep. 2027-Aug 2028

TECHNICAL & LANGUAGE SKILLS

Experienced in: AutoCAD, MATLAB, Microsoft Excel, Python, Microsoft Word, Adobe Photoshop
Familiar with: Solidworks, Rscript, JAVA, HTML, Rhino
Mandarin Chinese (conversational), Spanish (conversational), English (native)

RELEVANT COURSEWORK

Fluid Dynamics, Thermodynamics, Statics, Dynamics, Ocean Engineering Computer Programming, Probability and Statistics for Engineers, Hydrodynamic Lab

RELEVANT EXPERIENCE

URI Promoting Electric Propulsion Kingston, RI
Team Leader Sept. 2025 – Present
➤ Leading the development and construction of an electric unmanned boat for the PEP Workforce Development competition 2027.
➤ Won first place for 2026 Budget Warriors division with a 6+ foot vessel designed with a \$1,500 budget limit.

John W. Gilbert Associates Naval Architects and Marine Engineers Braintree, MA
Intern June – Sept. 2026
➤ Worked in AutoCAD to develop technical drawings for the construction of various workboats
➤ Created company advertisements for SNAME and Workboat magazines
➤ Assembled a database with hull coefficients and dimensions in Excel for future hull development

URI Hydrobotics Kingston, RI
Secretary Sept. 2024 – June 2025
➤ Led the writing of the team technical design reports and project documentations of the development and construction of autonomous undersea robot, Tardigrade, to be presented at the RoboSub competition.
➤ Facilitated in-team communications through email correspondence and announcements.

Medford Rowing Club Medford, MA
Assistant Boat Repairman & Senior Captain Sept. 2017 – June 2025
➤ Performed fiberglass and two-part epoxy boat repairs.
➤ Managed boathouse organization, inventory, and repair.

Boston Harbor City Cruises (Hornblower Cruises) Boston, MA
Deckhand / Bartender May – Aug. 2024
➤ Served as crew aboard large passenger vessels working closely with the captains to amass 52 working days of sea time and 9 hours of wheel time.

PROJECT AND LAB EXPERIENCE

Undergraduate Research in Science and Engineering (URISE) Spring 2026
➤ Contributed to research on computational fluid dynamics modeling (CFD) of surface ships
➤ Researched methods of model ONR Tumblehome ship construction for use in experimental tow tanks.

Hydrodynamic Lab Fall 2025
➤ Experimented in an academic lab setting exploring model testing, force coefficients, potential flow, lifting surfaces, and external fluid flows.

Ocean Measurements and Instrumentation Spring 2025
➤ Conducted lab and field experiments relating to wave characteristics and sediment properties through data sampling and signal processing. Designed and tested pressure housing and floating turbine platform.

Ocean Engineering Computer Programming Spring 2025
➤ Programmed a tsunami wave propagation model in Python to estimate time of arrival and wave height based on historical data off the coast of Japan.

M3OA Cardboard Canoe Spring 2022
➤ Designed and built manned cardboard canoe from scratch to win first overall in city-wide competition.

SCHOLARSHIPS AND AWARDS

Demers Foreign Language Fellowship, Boaro Family Endowed Scholarship in Ocean Engineering, Hasbro Scholars Scholarship, URI Presidential Scholarship

JACOB DICKSTEIN

401-408-6658 | jacobdickstein1@gmail.com | linkedin.com/in/jacob-dickstein | Barrington, RI

PROFESSIONAL SUMMARY

Ocean Engineering student at URI with hands-on experience designing and building underwater ROVs, including a NUWC-supervised internship, and field research experience studying marine mammals aboard an oceanographic research vessel. Seeking a summer 2027 internship in marine robotics, underwater systems, or naval architecture.

EDUCATION

University of Rhode Island — College of Engineering, Honors College September 2025 – Present
Ocean Engineering, BS, Class of 2029 | GPA: 3.90/4.0

- Dean's List (Fall 2025), President's List (Spring 2026)
- Dr. J. Craig Swanson Ocean Engineering Scholarship Awardee 2026
 - Awarded annually to qualified students pursuing an undergraduate degree in ocean engineering. Based upon outstanding scholastic merit and achievement.
- Activities: American Society of Naval Engineers, Promoting Electric Propulsion Team; Hydro-robotics Team; Sailing Club; Outdoors Club

Barrington High School 2021 – 2025

- FIRST Tech Challenge Robotics — Team Captain (2024–25), Vice Captain (2023–24); Dean's List Semi-Finalist 2024
- Eagle Scout (2023); Philmont Scout Ranch Crew Chief — led a 10-person crew on a 60-mile backpacking trek; National Honor Society (2023–25)

RELEVANT EXPERIENCE

Cetacean Research Volunteer — Tethys Research Institute, Sanremo, Italy June 2026

- Collected field data aboard the 65-foot research sailboat R/V Pelagos in the Ligurian Sea as part of an active cetacean sanctuary research program
- Conducted hydroacoustic search methods to locate and track sperm whales and fin whales
- Performed photo-identification cataloguing of individual whales to support long-term population studies

Undersea Tech. Apprentice Program (UTAP) — NUWC, Newport, RI Jul – Aug 2024

- Designed and built a remotely operated underwater vehicle (ROV) in a small engineering team under a fixed simulated budget
- Engineered the vehicle to complete supervisor-assigned underwater missions, competing head-to-head against peer teams on mission success and cost efficiency
- Gained early exposure to naval engineering design constraints, budget trade-offs, and team-based technical problem solving

Sailing Instructor — Herreshoff Marine Museum, Bristol, RI Jun – Aug 2022

- Designed lesson plans & taught sailing fundamentals to children ages 6–14 on 12.5-30-foot sailboats in Narragansett Bay
- Delivered on-the-water instruction emphasizing safety, seamanship, and hands-on practical skill-building

TECHNICAL PROJECTS

URI Hydro-Robotics Team — Torpedo-Style ROV

- Contributing team member on the design and build of a torpedo-style autonomous/remotely operated underwater vehicle

ASNE Promoting Electric Propulsion Competition — 1st Place, Budget Warriors Division

- Designed and built a 1/32-scale electrically powered speedboat under fixed budget constraints, optimizing hull form and propulsion for the competition's performance and cost criteria

16-Foot Wooden Sailing Canoe

- Independently designed and built a 16-foot wooden sailing canoe featuring a detachable leeboard and sloop rig

NUWC ROV Mini-Missions

- Built and piloted an underwater ROV to complete assigned missions in a test tank in coordination with NUWC engineers

FIRST Tech Challenge Competition Robots

- Designed, built, and iterated multiple competition robots over four years as Team Captain and Vice Captain

SKILLS & CERTIFICATIONS

CAD & Design: SolidWorks (CSWA Certified), Fusion 360, OnShape, Rhino 3D, LightBurn

Fabrication: 3D Printing (Bambu, Formlabs, Makerbot), Robotics Construction, Composite Construction

Software & Analysis: MATLAB, SimScale, Microsoft Office

Certifications: PADI Open Water Diver (No. 26060I9045)

Kevin Gomez

kevingomez1969@gmail.com | (401)-403-5663 | Providence, RI

EDUCATION

University of Rhode Island

Expected Spring 2029

Bachelor of Science in Mechanical Engineering

Bachelor of Arts in Global Language and Area Studies (GLAS) with a concentration in Japanese

Relevant Coursework: Statics, Dynamics, Manufacturing Processes & Systems, Engineering Graphics

SKILLS

Design & Engineering: Mechanical Assembly, CAD Modeling, 3D Printing, Bluebeam, SolidWorks

Programming: Python, MATLAB

Software: Adobe Premiere Pro, Microsoft Office, Google Workspace, Excel,

PROJECTS

Autonomous Underwater Vehicle (AUV) – “Thresher”

03/07/26 – 05/07/26

- Assisted in the design and assembly of a torpedo-style autonomous underwater vehicle (AUV) as part of the URI Hydrobotics team
- Utilized SolidWorks to model and modify mechanical components supporting system integration and structural design
- Contributed to the integration of sensor systems including IMU, DVL, pressure sensors, and GPS for navigation and localization
- Collaborated with a multidisciplinary team to integrate mechanical, electrical, and software subsystems into a functional robotic platform

EXPERIENCE

Mechanical Engineering Department Intern | Zaino & Associates

- Supported the design and development of rooftop and floor plans for HVAC projects.
- Utilized CAD and Bluebeam to develop and modify HVAC system designs and project drawings.
- Revised equipment schedules and engineering documentation to reflect project updates and design changes.

URI Hydrobotics Team | Mechanical Engineering Member

- Collaborate on the design and development of autonomous underwater vehicles (AUVs) for research and competition
- Assist in mechanical design, system integration, and testing of robotic subsystems
- Utilize SolidWorks to support component modeling and design improvements
- Work with multidisciplinary teams to integrate mechanical, electrical, and software systems
- Participate in testing and iterative refinement to improve system performance and reliability

Language Lab Assistant | University of Rhode Island

- Provide support to students by answering questions and assisting with language-related resources and coursework
- Coordinate materials and set up for lab activities and events
- Deliver professional and courteous service while resolving user issues efficiently

Alexander L. Harris

Denham Springs, LOUISIANA | (225) 347-1825 | School: ahar289@lsu.edu | Personal: alexharris893@gmail.com

EDUCATION

College:

Louisiana State University (LSU), Baton Rouge, LA
Bachelor of Science, Mechanical Engineering

May 2027
Current GPA: 3.372

Related Coursework:

Manufacturing Processes
Fluid Mechanics
Electronics
Control Systems

Thermodynamics
Strength and Materials
Simulated Methods
Heat Transfer

System Dynamics
Machine Design
Material Selection

Minor: Business Administration

Accounting
Management

Finance
Marketing

Other Universities:

Southeastern Louisiana University (SLU), Hammond, LA
Brown University, Providence, RI

Aug. 2021 – Dec. 2022
Aug. 2020 – Aug. 2021

EXPERIENCE

Calibration Technician and Quality Assurance Personnel

May 2023 - Present

JM Test Systems, Baton Rouge, LOUISIANA

- Work as a calibration technician for mechanical pressure and hydraulic deadweight instruments that require repairing, maintaining and calibrating devices in accordance with standards of NIST, A2LA, and ISO/IEC 17025 for companies involved in oil refinery, HVAC systems, manufacturing, and other industries
- Work as quality assurance personnel over metrology laboratory equipment which requires cross-referencing customer documentation, equipment data sheet readings, and manufacturing manuals to assure equipment was tested and calibrated according to NIST, A2LA, and ISO/IEC 17025 requirements and customer specifications

LHSPLA Official

Jan. 2021 - Present

Louisiana High School Powerlifting Association

- Serve as an official of LHSPLA requiring up-to-date knowledge of the current rulebook and discernment on multiple aspects of the process while being able to offer guidance as to better coaching staff and participants

Projects

Automated 3D Printer Filament Dispenser

March – May 2023

- Worked in a team to research and design a cheaper alternative dispenser compared to existing competitors while maintaining proper temperature and humidity and created to-scale CAD models of assembly

Skills

- **Software:** Microsoft Office, Presentation Skills, MATLAB, Fusion 360, SolidWorks,
- **Hardware:** Milling, Carpentry, MIG Welding, Hand Lathing, Construction

ACTIVITIES

Sunday School Class Leader

First Baptist Church of Denham Springs

Collegiate Athlete (Football)

Aug. 2020 – Dec. 2022

Brown University and Southeastern Louisiana University

NICHOLAS LYONS

West Warwick, RI | 651-318-6581 | nicholas.lyons@uri.edu

EDUCATION

University of Rhode Island | Kingston, RI

Bachelor of Science in Ocean Engineering

May 2029

Cumulative GPA: 3.96/4.00

Honors: Dean's List, Fall 2025; President's List, Spring 2026

Completed coursework: Calculus I and II, Linear Algebra, Physics I, Introduction to Ocean Engineering

In progress: Statics, Multivariable Calculus, Ocean Engineering Design Tools, Physics II

TECHNICAL AND PROFESSIONAL SKILLS

Engineering software: MATLAB, Wolfram Mathematica, Autodesk Fusion 360, Rhino 3D, Orca3D

Electronics and systems: Troubleshooting and diagnostics, electronic and optical system maintenance, diagnostic test equipment, fiber and coaxial communications

Leadership and management: Personnel supervision and mentoring, training and qualification, maintenance coordination, resource management, explosives safety, technical documentation

Maritime experience: Extensive sea time aboard U.S. Navy vessels; experience working and maintaining technical systems at sea

ENGINEERING PROJECTS

Promoting Electric Propulsion (PEP) Team | Team Member

- Member of the University of Rhode Island PEP team that earned first place in the budget competition.
- Modeled hull geometry in Rhino and Orca3D and evaluated resistance and power estimates to inform vessel design and propulsion planning.
- Contributed to PEP26 technical documentation and registration submission.

Magnetic Field Visualization Housing | Personal CAD Project

- Designed a two-part housing in Fusion 360 for a ferrocell, a magnetic-field visualization device, incorporating O-ring grooves to support the glass assembly.
- 3D printed prototypes for physical testing and iterated the housing and bezel geometry based on observed fit and LED glare.

RELEVANT TECHNICAL EXPERIENCE

U.S. Navy | Technical Team Supervisor (Leading Petty Officer)

June 2024 - December 2024

- Supervised and mentored 15 junior personnel in technical duties, professional development, and operational responsibilities.
- Trained and qualified 200 personnel in small arms and crew-served weapons to support operational readiness.
- Managed departmental resources for 600 maintenance items covering weapon systems, ordnance, and handling equipment; supported safe ammunition storage and equipment availability.

NICHOLAS LYONS

RELEVANT TECHNICAL EXPERIENCE CONTINUED

U.S. Navy | Electronics Maintenance Supervisor (Work Center Supervisor)

November 2020 - June 2024

- Led eight personnel maintaining more than 300 equipment items across two work centers, encompassing 13,000 team labor hours.
- Troubleshoot and repaired electronic fire-control and optical systems, including replacement of a \$450,000 thermal-imaging sensor, to support operational readiness.
- Trained 102 personnel in small-arms procedures and safety, achieving a 100% qualification rate.
- As Explosives Safety Custodian, led a 12-person team in correcting 46 discrepancies across eight programs, contributing to a 97% explosives safety assessment score with no major findings.
- Supported safe loading, storage, and unloading of ordnance and explosives valued at more than \$130 million, with zero mishaps or injuries.

U.S. Navy | Electronics Systems Technician (Fire Controlman)

December 2018 - November 2020

- Assisted with troubleshooting and component replacement in electronic fire-control systems to restore equipment capability.
- Completed Fire Controlman A and C schools and Apprentice Technical Training in electronics theory, weapon systems operation, and troubleshooting; graduated top of the class.

ADDITIONAL WORK EXPERIENCE

Charter Communications | Field Technician

February 2025 - August 2025

- Installed and repaired coaxial, fiber-optic, and twisted-pair cabling for residential cable television, high-speed data, and telephone services.
- Ranked first on the team in June and second in July on combined performance metrics while providing technical service and customer support.

Max Moon

Warren, NJ | +1 908-331-9698 | mmoon5429@gmail.com |

LinkedIn: <https://www.linkedin.com/in/max-moon-203061292/> / GitHub: <https://github.com/maxmoon8710>

Education:

Rutgers University School of Engineering - Piscataway

August 2024 - May 2028

B.S in Electrical and Computer Engineering, Minor in Mathematics

- GPA: 3.684 | Dean's List
 - RIEEE, Google Development Group, Mixed Martial Arts Club
-

Projects:

MixerEDU (Independent Project)

August 2026

- Programmed a live DSP architecture in C++ with multi-band Linkwitz-Riley crossovers, non-linear waveshaping, and discrete-time mathematical models. Accompanied with unique detailed GUI visuals for audio engineering education via cross-mapping.
- Implemented deterministic execution and low-latency constraints by eliminating dynamic memory allocation in the processing loop and created lock-free concurrency by atomic variables for seamless thread communication.

FireGuard (RIEEE) (Won 1st Place for Best Overall)

April 2026

- Led and directed team of 4 in developing a firefighter health and environment monitoring system that tracks user motion, environment air quality, and temperature, sending real-time alerts when danger is detected. Built within 24 hours.
- Programmed sensor functions and control loop for microcontroller. Designed the circuits and used RF transmitter to send firefighter stats to a receiver connected to another microcontroller, which feeds UI live info.

Traffic Light - Finite State Machine (Rutgers School of Engineering)

December 2025

- Designed a demand-driven traffic light controller using D flip-flops, logic gates, and clock.
- Derived schematic based on digital logic tables, tested and confirmed with verilog, physically constructed and debugged issues using logic probes and node-level signal analysis

Goal-Scoring Robot (41 Robotics Club)

March 2024

- Designed a soccer-playing robot that can search for the ball, and move it into a goal to score.
 - Programmed control loop on Arduino, and accompanying lower-level functions (search, move, etc.), assisted with CAD and physical assembly of motor drivers, color sensors, and ultrasonic sensors.
-

Skills: Embedded Systems | Firmware | Digital Logic | Digital Signal Processing | Prompt Engineering | Communication Systems | Circuit Design and Construction | Software Programming

Languages: C & C++ | Python | HDLs: Verilog | Java | RISC-V

Tools: CAD: Onshape | LTSpice | Vivado | MATLAB | Visual Studio & VSCode | Arduino | JUCE | Microsoft

Licenses/Certifications:

Introduction to Part Design Certification (September 2024), IBM Introduction to Artificial Intelligence + Introduction to Cloud Computing (June 2025)

Experience:

Baltusrol Golf Club (Springfield, NJ)

Server and Attendant

May 2026 - Present

- Provided clubhouse food and beverage service, attendance, and maintenance for the 3rd highest rated golf club in New Jersey. Demonstrated efficiency and adaptability in a high-pace environment. Provided exceptional customer service to all members and guests for high-end experience.

Warren Township Board of Education (Warren, NJ)

Building Maintenance Technician

June 2025 - August 2025

- Operated cleaning and maintenance equipment efficiently to complete daily tasks on schedule. Moved and organized furniture and other items.

Albertsons Companies Mid-Atlantic (Warren, NJ)

Cashier

April 2024 - August 2024

- Mastered POS system and improved sales efficiency. Ensured each customer gets a positive experience.

Warren Township Schools Summer Fun Program (Warren, NJ)

Paraprofessional / Tutor / Teacher Assistant

June 2022 - August 2023

- Tutored math and language arts for elementary students and assisted primary instructor with the coordination of daily activities and lesson plans. Provided whole-class and individualized instruction, encouraging positive and respectful student behavior.

ANDREW MORRIS

Fredericksburg, VA | (540) 642-9104 | drewsmartphone06@gmail.com

EDUCATION

Longwood University

Bachelor of Science in Physics (Pre-Engineering)

Farmville, VA

GPA: 3.85

- **Honors:** Awarded Outstanding Freshman Physics or Engineering Student (2025)
- **Relevant Coursework:** Calculus I, II, & III, University Physics I & II, Modern Physics, Material Science, Multivariable Calculus, Circuit Analysis

TECHNICAL & ENGINEERING SKILLS

- **Technical & Analytics:** Data Collection & Quantitative Analysis, Error Propagation, LINEST & Linear Regression Modeling, Microsoft Excel (Advanced Modeling), Laboratory Instrumentation & Measurement Equipment
- **Mechanical & Operational:** Heavy Equipment Operation (Tractor, Skidsteer, Aerial Lifts), Facility Maintenance, Safety Procedures & Risk Assessment
- **Soft Skills:** Technical Leadership, Team Collaboration, Dynamic Problem-Solving, Entrepreneurship & Financial Management
- **Languages:** Spanish (Elementary/Novice), German (Elementary/Novice)

EXPERIENCE

Sports Card Business Owner

Self-Employed

Fredericksburg, VA

2023 – Present

- Founded and operate an independent sports card retail enterprise generating over six figures in annual revenue.
- Manage sourcing, market valuation, pricing, and sales independently, applying data-driven decision-making and quantitative trend analysis to inventory management.
- Evaluate asset conditions, grading standards, and market fluctuations to maximize operational efficiency and profit margins.

Park Attendant

Stafford County Parks & Recreation

Stafford, VA

May 2025 – August 2026

- Operated heavy-duty equipment including tractors, skidsteers, and aerial lifts to maintain public parks and county infrastructure.
- Collaborated in a high-efficiency team environment to execute maintenance tasks while strictly ensuring operational safety protocols.

LEADERSHIP & ACTIVITIES

Longwood University Club Basketball

Founder & President

Farmville, VA

2024 – Present

- Founded and established the club basketball program at Longwood University during freshman year, managing student recruitment, team scheduling, and organizational logistics from the ground up.

Society of Physics Students (SPS)

Member

Farmville, VA

2024 – Present

- Active member of the National Society of Physics Students chapter at Longwood University, participating in departmental workshops, peer mentorship, and physics demonstrations.

Longwood University Sports Club Council

Vice President

- Elected Vice President to oversee campus sports club operations and risk management, enforcing safety protocols for all active clubs while organizing council initiatives. Developed strong executive leadership and administrative skills through cross-functional team management, policy compliance, and conflict resolution across diverse student organizations.

Praneil Mukkamala

praneil.mukkamala@gmail.com | [linkedin.com/in/praneilm](https://www.linkedin.com/in/praneilm) | 732-678-8891 | Monroe Township, NJ

Education

Rutgers, The State University of New Jersey - New Brunswick

Graduation: May 2028

Bachelor of Science in Engineering (BSE)

GPA: 3.97/4.00

Major: Mechanical Engineering

Relevant Coursework: Thermodynamics, Fluid Mechanics, Mechatronics, Dynamic Systems and Controls

Experience

Mechanical Team Lead, Rutgers Electric Boat

September 2026 – Present

- Direct a team of **12+ engineers** to design a **hull and drivetrain** for an electrically propelled displacement boat.
- Conduct research to optimize **drivetrain mounting**, adding **6 more mounting points** than the previous iteration.
- Communicate and delegate responsibilities across leadership and general positions for higher **cross-team efficiency**.
- Manage **sub-team budgeting and scheduling**, collaborating with e-board members to establish timeline.

Chassis Team Member, Rutgers Formula SAE

September 2024 – January 2026

- Designed and manufactured **15+ jig towers** and mounting tabs in **SolidWorks** to improve weld alignment and accuracy.
- Prepared tubes and jig tables to ensure weld penetration matched **engineering drawing specifications**.
- Redesigned mounting tabs and chassis slugs to meet updated **FSAE design standards** and improve **structural strength**.
- Conducted **torsional rigidity testing** of the welded chassis to validate the structural redesigns.

Camp Director, Princeton Stem Academy

July 2025 – August 2026

- Supervised **15–17 volunteers**, providing guidance and support to ensure smooth daily operations.
- Assigned volunteer roles to **maximize efficiency and engagement** while coordinating activities for up to **50 campers**.
- Adapted leadership approach across diverse age groups, building trust and earning positive feedback from parents.
- Educated students on **safe usage of power tools** and mechanical assembly using drills, screw drivers, band saws, and other large manufacturing tools, facilitating the creation of their own small robot.

Projects

Occupancy Sensor

CAES Energy Evaluation Project, Advisor: Prof. Todd Rossi

- Integrated **DHT22, PIR, and IR** sensors into an **Arduino-based** occupancy sensor for a CAES energy evaluation study.
- Designed a custom **PCB in KiCad** and wrote **C++ firmware** with automated **FTP CSV logging** for real-time analysis.
- Modeled a **3D-printable enclosure** optimized for airflow, durability, and ease of installation.
- Deployed the prototype to correlate occupancy data with **HVAC/lighting usage** and identify energy waste.

ESP32 RC Robot

- Built an Xbox-controller-driven robot from scratch on an **ESP32 microcontroller**, using **custom C++ firmware** and wireless control.
- Designed a **3D-printed chassis** for quick reconfiguration of strength and accessory mounts.
- Added servo-mounted camera controls and **OpenCV-based gesture control** over a **Python UDP socket**.

Skills

Robotics & Systems: Prototyping, Embedded Systems, Sensors, Data Acquisition, Systems Integration

Software: C++, MATLAB, Arduino, KiCad, Altium, SolidWorks, Fusion360

Manufacturing: 3D Printing, CNC Machining, Welding, Soldering, Microsoldering

Research & Design: CAD, Simulation, PCB Design

Maxim Myshchak

Brooklyn, NY | (718)-980-8254 | maxim_myshchak@college.harvard.edu | LinkedIn

EDUCATION

Harvard University

Cambridge, MA

Electrical Engineering / Computer Science

May 2030

- Relevant Coursework: Physics 15a, CS 50, Math 21a, AP Physics C E&M (5), AP Physics C Mechanics (5), AP Calculus AB (5), AP Computer Science A - Java (5), AP Computer Science Principles (5), Intro to CS (C#), AP Calculus BC (5), AP Chemistry (5)

PROFESSIONAL EXPERIENCE

NYC Department of Youth and Community Development - *Software Development Intern*

July 2026 - August 2026

- Led development of a centralized, Python-driven test-case tracking and data visualization system for an 11-person Agile intern team conducting WCAG 2.2 accessibility audits across 13 DYCD production web applications (23,000+ test cases)
- Wrote Python scripts (pandas, NumPy, matplotlib) to automate data validation, aggregation, and dynamic chart generation, giving management real-time visibility into testing status, increasing actionable insights by 70%
- Remediated WCAG 2.2 accessibility defects in discoverDYCD webpage, leveraging Angular, pushing code to production on Azure
- Authored technical architecture documentation (Mermaid diagrams) mapping application workflows and service integrations for cross-functional engineering teams

GE Aerospace Explore Engineering Program - *Intern*

November 2025 - February 2026

- Analyzed and compared diverse energy sources for propulsion systems, including cost, energy density, storage requirements, etc
- Conducted in-depth research on bypass ratio and compression ratio and their impact on turbofan engine design, including fan diameter, noise, installation considerations, material limitations, and emissions implications
- Developed a technical presentation to effectively communicate the limiting factors associated with bypass and compression ratios that helped guide the decision-making for a next-generation propulsion system at GE Aerospace

MIT Lincoln Laboratory - *Student Engineer / Researcher*

July 2025 - July 2025

- Designed and executed Doppler RADAR experiments, presenting finds to laboratory researchers, scientists, and engineers
- Collaborated with 25 ambitious individuals from across the nation (3% national acceptance rate for this residential program) to overcome obstacles related to learning how RADAR works and challenges encountered when conducting experiments
- Acted as a visionary, unifier, and team member throughout the process, providing team with a background in physics and mathematics while mutually reinforcing communication skills and collaboration-centric research practices

New York City Makerspace - *Lead Designer & Fabricator*

July 2024 - August 2024

- Designed a CNC-milled adjustable standing desk for NYC students with ADHD; iterated based on user feedback and tested in NYC public school environments; currently in the process of being published to the Makers Making Change open-source repository
- Assisted in alleviating usable scrap wood from ending up in the landfill by repurposing lumber to construct 4 wooden chairs, later donating them to elders in the community in need of furniture; elevating community with lumber

LEADERSHIP EXPERIENCE

Science Olympiad Team - *Captain & Problem-Solver*

September 2023 - June 2026

- Organize 30+ members into their respective events and ensured readiness for competitions
- Manage the team's financial responsibilities, organizing the raising of over \$1,600+ funds and Qualified for NY State Championships
- Achieved: 4th place in Columbia University's **Integration Bee**, 4th in Material Science (out of 75+ national teams); 6th place in Wind Power, 6th in Air Trajectory, 9th in Circuit Lab, 11th place in Optics, 13th in Robot Tour, 14th in Engineering CAD (out of 55+ teams)

Engineering/Computer Science Club - *President & Community Liaison*

September 2022 - June 2026

- Revamped outreach, transforming club from a dormant group of 4 students into a 19-member hub for beginner-friendly workshops on 3D-printing, coding, and electronics - allowing students to develop assistive tech, ultimately earning National Finalist recognition
- Mobilized 4 teams for the MIT Cre[at]e Challenge, engineered prototypes to address challenges for those with disabilities
- Collaborated alongside people with disabilities, taking in feedback to create improved iterations, later open-sourcing the prototypes

SKILLS/AWARDS

- Coding Languages:** Java, JavaScript, HTML, CSS, C#, C, Python, SQL, C++/Arduino, Python (Pandas, Matplotlib, NumPy) Angular, etc
- Computer Skills:** Proficient in Microsoft Office, Google Suite, and Web Design, Linux OS
- Engineering Skills:** Azure Cloud, .NET, Figma, CAD software (TinkerCAD, OnShape, Fusion360), Circuitry, Microcontrollers/Arduinos, Altium (PCB design), Git, Power Systems, Integrated Circuitry
- Languages:** English, Ukrainian, Spanish, and Russian
- Awards:** Council of the City of New York Recognition Award (Awarded by Council member Ari Kagan), MIT Cre[at]e Challenge National Finalist Team (one of 8 out of 32 national teams), Amassed 2,000+ global downloads of open source STL files, Certificate of Recognition from 1st place NJ/NY Seaperch Challenge (DOD competition), IBM AI Literacy Certificate, Invent the Future Hackathon Free Arduino Uno Q winner (300/1200+ worldwide), 4th in Columbia University's National Integration Bee

Bill Rettig

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EDUCATION

University of Georgia	Athens, GA
<i>Bachelor of Science, Mechanical Engineering</i> , Presidential Scholar	May 2027
<i>Master of Science, Mechanical Engineering</i>	May 2028
Undergraduate Student, State of Georgia, 2026	GPA: 3.99

RELEVANT COURSEWORK

CAD/CAE | Heat Transfer | Manufacturing and Design Studio | Fluid Mechanics | Electrical Circuits | Thermodynamics | Engineering Materials | Machine Design | Strength of Materials | Statics | Dynamics | Linear Systems

RELEVANT EXPERIENCE

Teacher's Assistant, Electrical Circuits (PI: Dr. Mark Trudgen)	May 2026 - Present
<i>University of Georgia</i> Athens, GA <ul style="list-style-type: none">Created 13 demonstrational videos to supplement lecturesAssembled hardware kits for student labsCreated Simulink simulations of the lab test PCB	
Undergraduate Research Assistant (PI: Dr. Michael Pagan)	January 2026 - Present
<i>University of Georgia</i> Athens, GA <ul style="list-style-type: none">Evaluated weld performance using Scanning Electron MicroscopyDesigned and fabricated an automated welding testbedConducted an extensive literature review of weld microstructuresPresented findings at the Center for Undergraduate Research Opportunities 2026 Symposium	
Automotive Mechanic	May 2015 - 2022
<i>Wolfgang's</i> Duluth, GA <ul style="list-style-type: none">Performed restorative work on modern and vintage cars	

PROJECTS

Capstone Project ASNE PEP27 (PI: Dr. Adam Wineland)	August 2026 - May 2027
<i>University of Georgia</i> Athens, GA <ul style="list-style-type: none">Led an undergraduate team to enroll in the American Society of Naval Engineers annual boat race	
Sensors Testbed (PI: Dr. Mark Trudgen)	January 2026 - February 2026
<i>University of Georgia</i> Athens, GA <ul style="list-style-type: none">Designed and fabricated a custom testbed for the Advanced Sensors LabEngineered a rigid mount for the Advanced Sensors double inverted pendulum project	
Suspension Bridge (Director: Dr. John Pickering)	August 2025 - February 2026
<i>Shoal Creek Sanctuary</i> Athens, GA <ul style="list-style-type: none">Designed a 57-foot suspension bridge to span Shoal CreekCreated a construction plan to meet time and budget constraintsLed an undergraduate team to fully construct the bridge	

SKILLS

AutoDesk Inventor | MatLab | Simulink | MIG TIG Stick Welding | Plasma Cutting | ProtoMAX Waterjet Cutter | Microsoft Excel | DaVinci Resolve | GitHub | Ubuntu Linux

INVOLVEMENT EXPERIENCE

UGA Welding, President Athens, GA	August 2026 – Present
Engineering Honor Society, Tau Beta Pi Georgia Delta Chapter, Athens, GA	September 2025 – Present
Clean Athens Collective, Volunteer Athens, GA	August 2025 – Present
IMPACT UGA, Volunteer Asheboro, NC & Athens, GA	March 2025 – Present

Luke Maverick Saletta

Cell: (650)206-0031 lsaletta@stevens.edu linkedin.com/in/luke-saletta/ Active DoD Secret Clearance

EDUCATION

Stevens Institute of Technology, Hoboken, NJ

Bachelors of Engineering in Naval Engineering, Expected May 2028.

Master of Engineering in Ocean Engineering, Expected December 2028.

- GPA: 3.51, Deans list, Pinnacle Scholar
- Presidential Scholarship, Edwin A. Stevens Scholarship, Sprague Scholarship, ASNE Academic Scholarship

Tabor Academy, Marion, MA

Class of 2024, Graduated with Naval Honors.

EXPERIENCE

Davidson Laboratory, Stevens Dept. of CEOE, Research Assistant, Spring 2026, Summer 2026, Fall 2026.

- Conduct model scale hydrodynamic tests on planing and displacement hulls in the towing tank to measure resistance and seakeeping.
- Operate the high speed towing carriage at speeds up to 51 ft/s and wave maker at heights up to 18in.
- Prepare models for testing including CNC machining, paint, epoxy, instrument calibration, and model ballasting.
- Conduct performance testing of Oscillating Surge Wave Energy Converters measuring hydrodynamic characterization and absorbed power.

Project Tardis, Design contractor, Summer 2026

- Designed circuit board mounting and cooling plates in SolidWorks for a consumer home technology startup, taking parts from concept through to manufacturable drawings.
- Manually machined aluminum prototype hardware holding tolerances of ± 0.05 mm.

AI-Energy Laboratory, Stevens Dept. of CEOE, Research Assistant, Spring 2025.

- Design of a hardware in the loop system for a surge wave energy generator

Naval Surface Warfare Center Carderock Division, Naval Engineering Intern, Summer 2025.

- Executed a 10 week rough order of magnitude study addressing points on the ship design spiral, delivering a concept of operations, parametric design, and a Space Weight Area and Power Analysis.
- Specialized in hull form development, indicative internal arrangements, ballast polygon calculations, propulsion architecture analysis, fuel estimations, and an Electric Power Load Analysis.

Stevens Electric Boatworks, President, Co-Founder, Composites Lead Engineer, 2024-Current.

- Founded a competitive engineering team designing, building, and racing manned and unmanned electric boats.
- National Champion, 2025 ASNE PEP Electric Boat Race, manned planing division.
- Expanded team to 30+ members, 2026 PEP Third Place in Manned Planing, competed in Unmanned Autonomous. Led 2026 drivetrain design (motor selection, power electronics, propulsion optimization) and raised \$31,000 in sponsorship.
- Leading 2027 composites design (making a custom 10.5 foot carbon fiber hydroplane)

Sailing School Vessel *Tabor Boy*, Executive Officer, 2022 - 2024

- Oversaw daily vessel operations as paid officer of 115' schooner; managed 24 person crew; led shipboard emergency protocols; conducted navigational planning; Maintained small boat fleet.
- Organized five-day coastal voyages for 250+ students

TECHNICAL SKILLS AND SEA TIME

Computer Aided Design: Fusion 360, Solidworks, Rhinoceros 3D.

Programming and Integration: Arduino, Raspberry Pi, Ardupilot.

Fabrication: Traditional Ship Rigging, 3d Printing, Wood Brightwork, Fiberglass Repair, Marine Electrical, Marine Diesel

Sea Time: <25 Tons: 280+ days – 25 to 88 Tons: 52 days at sea – 100+ Tons: 174 days at sea

ACTIVITIES

Stevens Electric Boatworks, President – Stevens Sailing Team, Vice President – Stevens Ice Hockey, Member – Society of Naval Architects and Marine Engineers, Member– American Society of Naval Engineers, Member – Alpha Xi of Chi Psi, Member

Elijah Wadsworth

Atlanta, Georgia

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linkedin.com/in/elijahwadsworth

OBJECTIVE

To leverage a strong academic background in mechanical engineering, hands-on experience with engineering software like Autodesk and MATLAB, and leadership skills to contribute to a dynamic engineering team. Pursuing an internship will involve applying technical knowledge, enhancing problem-solving skills, and gaining practical experience within the mechanical engineering field.

EDUCATION

University of Georgia	Athens, GA
<i>Bachelor of Science in Mechanical Engineering</i>	May 2028
Major: Mechanical Engineering, Minor: Undecided	GPA: 3.90/4.00

Woodstock High School	Woodstock, GA
<i>High School Diploma: Advanced Academic STEM Graduate</i>	May 2024
<i>6/460 Class Rank</i>	GPA: 4.61/4.00

AWARDS AND PROJECTS

Educational Awards and Honors | Woodstock, GA

- Georgia Certificate of Merit (2023) | Certificate of Academic Excellence (2021, 2022) | AP Scholar of Distinction

Capstone Design, PEP Workforce Development - Naval Engineers | Athens, GA

August 2026 – Present

- Designing an electric propulsion boat in the division of manned planed hull to race in Portsmouth, VA in April 2027.

UGA Robotics, Beetleweight Team | Athens, GA

August 2026 - Present

- Designing and fabricating a controlled armored robot weighing up to three pounds to compete at UGA and Georgia Tech in Spring 2027.

Mechanical Football Launcher Competition, UGA College of Engineering | Athens, GA

January 2025 – May 2025

- Designed and fabricated a successful flywheel launcher for a collegiate engineering competition, utilizing Autodesk Inventor for CAD modeling and 3-D printing software for modeling and structure.

WORK EXPERIENCE

Reeves Young, Project Engineer Intern | Atlanta, GA

May 2025 – August 2025

- Analyzed and interpreted Mechanical, Civil, and Electrical drawings for a Jaeger System, first-in-country Aeration System project at Gainesville's largest water treatment plant
- Utilized Procore and Bluebeam to manage and document daily project progress, contributing to the timely installation of four clarifiers, state-of-the-art aeration system, and surrounding controls.

Perfect Game, Umpire | Regional Georgia

April 2024 – Present

- Facilitate baseball games from ages 8 - 18 years old, learned effective communication skills

Allatoona Dinosaurs, Fishing Charter Co-Captain | Canton, GA

May 2026 – Present

- Co-built a fishing charter business taking out clients to catch longnose gar on homemade rope lures in lake Allatoona.

INVOLVEMENT EXPERIENCE

Family Group Leader, Leader | Athens, GA

May 2026 - Present

- Leading a diverse, coed small group, facilitating weekly discussions, building community engagement, and mentoring members to foster personal growth.

UGA National Engineering Honors Society, Member | Athens, GA

January 2025 - Present

- Distinguished group of the top 1/8 of the mechanical engineering class as third or fourth-year students

UGA American Society of Mechanical Engineers, Member | Athens, GA

January 2025 - Present

- Heard from professional engineers, able to work on preliminary design projects involving Biomechanics

National Honors Society, Executive Board Member | Woodstock, GA

August 2022 – May 2024

- Served on the Executive Board, Facilitated Donation Drives, Community Service such as Elderly Assistance

Beta Club, Junior Officer | Woodstock, GA

August 2020 – May 2024

- Logged over 100 hours of community service and served as Junior Officer developing presentation skills

SKILLS

Technical: Microsoft Access / Autodesk Experience (Inventor) / MATLAB / Bluebeam / Procore / Onshape / Simulink

Andy Ye

(917) 863-6437 | andyye212@gmail.com | Flushing, NY | linkedin.com/in/andy-ye-7a242a337

EDUCATION

Stony Brook University Bachelor of Science, Mechanical Engineering	GPA: 3.4/4.0	Expected: 2029
Aviation High School CTE Advanced Regents Diploma Aircraft Maintenance	GPA: 94.25	Graduated: 2025

TECHNICAL SKILLS

Software: SOLIDWORKS, Fusion 360, AutoCAD, Autodesk, FEA, ANSYS Fluent, C++, Python, MATLAB, BlueBeam, Microsoft Suite
Hardware: Welding, Soldering, Sheet Metal, Composites, Technical Drawings, GD&T, Troubleshooting Electrical Systems, Hydraulics, HVAC, Elevators
Certifications: OSHA 30 Hour, MTA Track Safety, Erosion & Sediment Control, FDNY F60 Fire Guard, Hazardous Waste, Site Safety Training, Joby Private Pilot Ground School, 4 Hour Flagger
Languages: English, Mandarin

PROFESSIONAL EXPERIENCE

Forte Construction Safety/ Environmental Intern	Started August 2026 Islandia, NY
<ul style="list-style-type: none">Monitored and maintained site-wide environmental compliance, overseeing Stormwater Pollution Prevention Plans (SWPPP), erosion controls, and hazardous material containment systems in alignment with EPA and state environmental standards.Conducted comprehensive Job Hazard Analyses (JHAs) and safety audits for mechanical equipment, rigging, and active work zones, applying engineering risk-mitigation principles to identify hazards and support a zero-incident job site.Reviewed engineering drawings, submittals, and RFIs through an environmental and safety lens, verifying that mechanical installations, ventilation, and material handling strictly complied with OSHA regulations and environmental design constraints.	
Forte Construction Project Engineering Intern	May 2026 - August 2026 Hollis, NY
<ul style="list-style-type: none">Assisted project management team in processing Request for Information and submittals, ensuring clear communication between subcontractors and the architectural design teamCollaborated with site superintendents to perform field inspections, ensuring active work site adhered to OSHA safety standards and project quality control requirements.Analyzed structural drawings and CAD models using AutoCAD and Bluebeam to identify potential construction conflicts and verify the work complied to specifications.	
Stony Brook Solar Racing Team Mechanical Lead	Started August 2025 Stony Brook, NY
<ul style="list-style-type: none">Contributed to the design and manufacturing of a 14-foot modular, high speed carbon fiber boat for electric propulsion and solar competitions using 3D printed PETG molds and vacuum resin infusion.Conducted 1/3 scale tow tank testing at an Ocean & Hydrodynamic Engineering research facility to identify optimal LCG, reducing hydrodynamic resistance by 15% and achieving projected top speeds of 25+ knots.Analyzed and processed large experimental data sets to optimize the longitudinal center of gravity, mitigating high-speed porpoising and maximizing dynamic stability.Constructed a carbon fiber sandwich structure with a Lantor Soric core, validated via FEA to withstand 2,500 lbf shear loads at modular flange interfaces with a 1.5x safety factor.	
RedRacing Formula SAE Aerodynamicist & Business Marketing	Started August 2025 Stony Brook, NY
<ul style="list-style-type: none">Designed and tested aerodynamic components using SOLIDWORKS and ANSYS Fluent, improving overall vehicle down-force while keeping drag low.Developed a comprehensive sponsorship package to attract business partnerships for RedRacing.Collaborated with a diverse team at Stony Brook University, fostering innovation in motorsport engineering.	