# Jaden Stone

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Portfolio: https://r3dotstone.github.io/portfolio/

## Education

**Bachelor of Science in Engineering: Integrative Engineering, Robotics Focus** **May 2024**
**Lafayette College — Easton, PA** **3.85 GPA**
Marquis Award, Franklin DeLuca Scholarship
**Akademie für Internationale Bildung — Bonn, Germany** **Spring 2022 Semester**

## Skills

**Engineering:** Fusion 360, Inventor, AutoCAD, Rhino, Robot Simulation (WeBots), Additive Manufacturing, Fabrication
**Programming:** Python, Git, Visual Studio Code, Arduino, MATLAB/Simulink, Mathematica, LTSpice, System Verilog
**Office:** Microsoft Office Suite, Google Drive Suite, Illustrator, Photoshop, InDesign, file system organization
**Hobbies:** R.C. quadcopters and planes, small-engine-vehicles, rock climbing, bicycling

## Professional Experience

**Shop Assistant, Urban Wood and Steel — Hamden, CT** **Summer 2021 and 2022**
Performed detailed independent work (like applying polyurethane/stain and selecting lumber), coordinated teamwork (like crating of products), and difficult manual work (like moving steel).
**Student Tech Worker, Hamden Arts Department — Hamden, CT** **2018-Present**
Works on lighting design and operation, and sound for live events in venues around Hamden. Wires and focuses lights from technical plans and often must act independently in critical situations, without supervision.
**Tutor — New Haven, CT** **Summer 2020-Summer 2021**
Supplemented learning during virtual schooling. Covered all areas of STEM and some humanities.
**Administrative Assistant, Circle of Life Midwifery — Hamden, CT** **Summer-Winter 2020**
Managed medical file system and electronic charts. Categorized incoming paperwork and uploaded to patient database.
**Designer, Luckey LLC — New Haven, CT** **Summer 2019**
Conducted both independent and cooperative design projects aimed to market Luckey LLC. Was responsible for procurement and logistics for thousands of dollars of products.
**Assistant to the Lighting Director, Foote School Theater — New Haven, CT** **Summer 2018**
Assisted the lighting director and led camp attendees, ages 10-15, with lighting and set construction.

## Leadership Experience and Notable Extracurriculars

**Lafayette Motorsports Team** **Project Lead 2023, Member 2021-2022**
Leads development of high-fidelity dynamic car model in WeBots to enable computational optimization and performance simulation. Includes Pacejka tire model, 3D suspension model, and battery/motor/power consumption models. Also contributes to integration of new car management system and any shop tasks required.
**Lafayette Engineers Without Borders** **Project Lead 2023, Member 2020**
Oversees the mentoring of students at Easton Area High School for the FIRST Robotics Competition in the development of PID controlled balancing functionality and refinement of swerve drive code.
**Lafayette American Society of Mechanical Engineers** **President 2023, Member 2021-2022**
Coordinates major projects and organized numerous events, reorganized leadership structure to allow for greater institutional knowledge and accountability, and is responsible for a $5000 budget.
**Dynamics of Physical Systems (ME352)** **Student Instructor 2023**
Provides support for students outside of class time to work through challenging conceptual processes (such as dynamic, mechanical energy models) per request of the Director of Mechanical Engineering.
**Hamden Sikorsky STEM Challenge Team** **President 2018-2020, Member 2017**
Oversaw all tasks with special attention to concept, design, and analysis.
**Third Place 2018 —** Stability augmentation system (design, engineering reports, presentations, prototype)
**Third Place 2019 —** Novel helicopter cockpit (design, engineering reports, presentations, system integration lab)
**Hamden High School First Robotics Team** **President 2018-2020, Member 2017**
Led peers in construction of robotic mechanisms and fundraising efforts, bringing the team to competition for the first time in four years.