Jaden Stone

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Education

Bachelor of Science in Engineering: Integrative Engineering, Robotics Focus **May 2024**
Minor: Religious Studies
Lafayette College — Easton, PA **3.79 GPA**
Marquis Award, Franklin DeLuca Scholarship
Akademie für Internationale Bildung — Bonn, Germany **Spring 2022**

Skills

Engineering: 3D/2D CAD (SolidWorks, Fusion 360, Inventor, Rhino, AutoCAD), Robot Simulation and Control (WeBots, MATLAB/Python Robotics Libraries), Finite Element Analysis (Ansys), Additive Manufacturing, Metal Fabrication
Programming: Python, Git, Arduino/C++, MATLAB/Simulink, Mathematica, LTSpice, System Verilog, Linux/Bash, OOD
Office: Microsoft Office Suite, Google Drive Suite, Illustrator, Photoshop, InDesign, Applied AI, Team Building/Leadership

Professional Experience

Design Engineer, BranchOut (Bergh Summer Accelerator) — Easton, PA **Summer and Fall 2023**
Re-engineering the "swing" from the tree branch down and building a business from the ground up. Collaborating closely with a team of five to bring the joy of swings to other campuses. Corresponding with suppliers, machine shops, and customers to design, analyze, prototype, manufacture, test, and pitch our product successfully. Currently finalizing our installation workflow, obtaining standards certification and patents, and coordinating with customers.

Student Instructor, Dynamics of Physical Systems — Lafayette College **Spring 2023**
Provided extracurricular support per request of the Director of Mechanical Engineering.

Shop Assistant, Urban Wood and Steel — Hamden, CT **Summer 2021 and 2022**
Performed detailed independent tasks including applying polyurethane and selecting lumber. Coordinated teamwork while packaging products and fabricating large steel parts. Used jigs, fencing, and batching to increase efficiency.

Student Tech Worker, Hamden Arts Department — Hamden, CT **2018 - 2022**
Designed and operated lights and sound for live events in venues around Hamden. Wired and focused lights from technical plans and acted 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.

Designer, Luckey LLC — New Haven, CT **Summer 2019**
Conducted both independent and cooperative design projects to market Luckey LLC. Designed and procured thousands of dollars of merchandise.

Assistant to the Lighting Director, Foote School Theater — New Haven, CT **Summer 2018**
Led camp attendees, ages 10-15, and taught them about lighting and set construction.

Leadership Experience and Notable Extracurriculars

Lafayette Motorsports Team **Vehicle Control Specialist 2023 - Present, Member 2021 - 2022**
Leads integration of cooling system with new Simulink-based car management system. Designs safety, data acquisition/processing, and control systems around specified sensors/hardware. Undertakes shop tasks as required.

Lafayette American Society of Mechanical Engineers **President 2023 - Present, Member 2021 - 2022**
Coordinates major projects, including salvaging a three-wheeled mobile robot, building a human-factors optimized storage system for EMS rapid response vehicle, and leading Engineering Week community outreach activity. Spurred initiatives to give all active members free ASME memberships and restructure the executive board to preserve institutional knowledge. Working on making a formal process to facilitate member project ideas and participating in ASME engineering competitions.

Lafayette Engineers Without Borders **Project Lead 2023 - Present, Member 2020 - 2022**
Leads a team mentoring students on Easton Area High School robotics team. Optimized program structure to promote greater participation from team members and offer greater value to students. Conducts workshops in foundational robotics concepts.

Hamden Sikorsky STEM Challenge Team **President 2018 - 2020, Member 2017**
Led design, documentation, presentation, and prototyping of stability augmentation system and novel helicopter cockpit.

Hamden High School First Robotics Team **President 2018 - 2020, Member 2017**
Built a robot from scratch with no budget, bringing the team to competition for the first time in four years.