Caden Perry

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Education

Moscow High School — Moscow, ID
GPA: 4.0 — August, 2019 - June, 2023

Georgia Institute of Technology — Atlanta, GA
BS Aerospace Engineering, GPA: 4.0 — August, 2023 - May, 2026

Relevant Course-work Complete: Computer-Aided Design, Solid Modeling Capstone, Dynamics, Computing for Engineers, Principles of Engineering Materials

Relevant Course-work In-Progress: Statics, Thermofluids, Diff. Eq.

Work Experience

Schweitzer Engineering Laboratories — Pullman, WA
Mechanical Engineering Intern — December, 2022 - August, 2023

- Worked in Product Support and Development Mechanical group which functioned as in house engineering consulting. Designed fixtures and tools for manufacturing floor and automation cells with cobots to put on the assembly line.
- Spent significant time rapid prototyping with 3D printing and Solidworks resulting in final products with drawing packages. As an individual, I saved the company over $10,000 in cost savings, several safety improvements, and several defects per year.

Research Drone Development — Atlanta, GA
A low cost, easy to source, multirotor drone for research flight testing — January, 2024 - Present

- Project within the VLRCOE at Georgia Tech to develop an open sourced, low cost drone built for research use with modern components and high ease of use.

Better Place Drones VIP — Atlanta, GA
Next-gen Hybrid Airframe Development Team — August, 2023 - Present

- The team is in charge of developing a novel airframe to be used in conjunction with a Cobra Aero electric generator to achieve 15+ hour flight times and >150lb payload capacity for entry to the Wildfire X-Prize competition.

Phillips Farm — Moscow, ID
Head Intern — June, 2021 - August, 2022

- Assimilated data catalog from past years into NestWatch database and set up currently used nest numbering system. Managed a group of 10 interns in data collection and management.

Skills

SOLIDWORKS:	CSWE- Mechanical Design, CSWPA-Sheet metal, Weldments, Surfacing, Drawing Tools
Software:	Matlab, Excel, Word, PowerPoint, OneDrive
3D Printing:	PETG, PLA, TPU, Onyx
Manufacturing:	Soldering, Manual Lathe, Manual Mill, CNC Mill, Hand Tools, Sheet Metal

Projects

Developing Novel Drone Design for Efficiency
Solidworks, Spot Welding, Betaflight, Ardupilot, 3D Printing, CNC- Carbon Fiber
https://projectboard.world/isef/project/etsd032-refining-drone-design-for-efficiency
Patent Pending personal project developing a novel propeller configuration for increased drone flight times or payload capacity. The concept revolves around increasing the disk area, reducing disk load while allowing more efficient motors and propellers to be used without sacrificing on stability or portability.

Awards

ISEF Finalist 2022, 2023 — Society for Science
Winning North Idaho SEF and Competing at ISEF in Atlanta, GA and Dallas, TX. — May, 2022 and 2023

Gracious Professionalism Award — FIRST Robotics Competition
My FRC Team 4061 competed at the PNW District Championship and through our commitment to blending knowledge, competition, and empathy both on and off the competition field. — March, 2023

Clubs, Extracurriculars, and Societies

Rotorjackets FPV Drone Racing: PART 107 Commercial Pilot — August, 2023: GTech

VFS DBVF — August, 2023: GTech

Sigma Xi Associate — August, 2023

Sigma Gamma Tau: Aerospace Engineering Honor Society — January, 2024: GTech