SIMON KEMP

Contact

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2821 Ksel Dr., Sandy, UT 84092

Skills

- **Machine Shop**
  - **Band Saw**
  - **Belt Sander**
  - **Drill Press**
- **Rapid Prototyping**
  - **Laser Cutting**
  - **3D Printing**
- **CAD**
  - **SolidWorks**
  - **Fusion 360**
  - **ANSYS**
- **Finite Element Analysis (FEA)**
- **Computational Fluid Dynamics (CFD)**
- **Data Analysis**
  - **Matlab**
  - **Python**

Course Sample

- Mechanical and Aerospace Systems
- Principles of Integrated Engineering
- Finite Element Analysis
- Material Science
- Mechanical Prototyping
- User Oriented Collaborative Design
- Science Fiction and Historical Context

Education

Olin College of Engineering · Needham, MA

B.S. in Mechanical Engineering - Anticipated Graduation: May 2023

- GPA: 3.98
- Recipient of 4-year 50% Olin Merit Scholarship.
- Recipient of $16,000 Northrop Grumman HIP Scholarship.

Experience

Northrop Grumman · Salt Lake City, UT

Engineering Intern, May 2022 - July 2022

- Developed Unit tests in MATLAB for Gyroscope testing equipment.
- Designed 3d printable parts for a Fiber Optic Gyroscope winding machine
- Mapped project requirements to the location they are run in code for a new project.

Great Basin National Park · Baker, NV

National Park Ranger Intern, June 2021 - August 2021
National Park Ranger Intern, June 2018 - August 2019

- Developed and guided tours of Lehman Caves that combined history, cave science, and conservation, while being informative and engaging to park visitors.
- Worked at the information desk to inform and provide assistance to the public.

Northrop Grumman HIP program · Salt Lake City, UT

High School Involvement Partnership Participant, August 2017 - May 2019

- Designed and constructed a parachute deployment system for model rockets.
- Designed circuitry to integrate an Arduino with the deployment system.
- Programmed an Arduino to deploy a parachute at a set altitude.

Activities

Olin College Rocketry · Needham, MA

Payload Lead, September 2021 - June 2022

- Managed design, construction, and testing of payload.
- Assisted with recovery and setup prior to flight.

Recovery Lead, June 2020 - May 2021
Recovery Member, September 2019 - June 2020

- Managed design, construction, and testing of the recovery system for a high-powered rocket.

The American Rocketry Challenge (TARC) · Salt Lake City, UT

Team Lead, August 2017- April 2019

- Founded high school rocketry team to compete in The American Rocketry Challenge.
- Fabricated the rocket structure using a 3D printer and laser cutter.
- Performed aerodynamic analysis and optimization of the rocket to meet competition requirements.