

Gabriel Haarberg

PROFILE

Largely interested in the production and interconnection between mechanical devices and software. Years of personal dedication and professional experience has led me to build a substantial foundation in a vast variety of hardware-software implications and techniques.

EXPERIENCE

EDGE AUTONOMY, SAN LUIS OBISPO, CA

PRODUCTION ENGINEERING SUPPORT SPECIALIST – SEPTEMBER 2023 - PRESENT
COMPOSITES TECHNICIAN INTERN – JUNE 2023 - SEPTEMBER 2023

Internship with composites team of surveillance drone manufacturer. Hands on with prepreg carbon fiber layups. Designing jigs and tooling in SolidWorks with Production Engineering team to strategically increase production rates. 3D printer research, assembly, calibrating, and tuning.

NEATMON, INC. | HOWE NEAT, INC. BENICIA, CA

HARDWARE TECHNICIAN – MARCH 2021 - SEPTEMBER 2022

Technician at Bay Area Agriculture-Tech startup specializing in industrial monitoring and control. Performed a wide variety of tasks, including 3D printer farm assembly/operation/maintenance, PCB soldering and quality control, firmware development and documentation, and more.

EDUCATION

CAL POLY, SAN LUIS OBISPO

B.S. MECHANICAL ENGINEERING – SEPTEMBER 2022 - PRESENT | 3.402 GPA

Cal Poly CubeSat Laboratory - Structures and Mechanisms team. Part of Reaction Wheels sub-team to achieve precise attitude control of spacecraft for a fraction of standard price.

BENICIA HIGH SCHOOL, BENICIA CA

AUGUST 2018 - JUNE 2022 | 4.18 WEIGHTED GPA | 3.93 NON-WGTD

Panther Band President and 3 year Leadership member; managed a team of student leadership to lead, motivate, and inspire a variety of different music programs. Performed in parade, concert (2 different bands), and indoor drumline.

PROJECTS

FLIGHT MOTION SIMULATOR – ADV. ENGINEERING HONORS SENIOR PROJECT

JUNE 2021 - JUNE 2022

Racing and airplane interactive motion simulator with moving chair, controls, and virtual reality.

ANIMATED HOLIDAY LIGHT SHOW

JUNE 2018 - PRESENT

Animated light show using >6,000 LED's synchronized to music on the front of my house, in which cars watch and listen via local FM radio.

SKILLS

SolidWorks and Fusion 360 CAD
Microsoft Office (Excel), Jira
Metal fabrication - mill, lathe, weld
Composites layups
FDM 3D printing & design
Soldering
Robotics assembly and troubleshooting
Arduino, C++, Python, Javascript, MATLAB, IoT, Vim

CERTIFICATIONS

FAA Part 107 - Small UAS Pilot
FCC Amateur Ham Radio Technician

AWARDS

SUMMIT AWARD: EXCELLENCE IN SERVICE TO BENICIA HIGH SCHOOL
BHS CLASS OF 2022

For service as the Band President to better the Panther Band Program.

JOHN PHILIP SOUSA AWARD
BENICIA PANTHER BAND

For exhibiting the most outstanding musicianship, highest dedication, demonstration of professional qualities, leadership, and more.

PERSONAL INTERESTS

Distance running
Collegiate waterskiing
Cross country mountain biking
Performing/enjoying music; percussion
Practical IoT and Arduino projects
Model aircraft and multirotors

