BRENDAN ENGH

San Diego, CA • (858) 344-2793 • brendanengh@gmail.com • linkedin.com/in/brendan-engh

EDUCATION

Santa Clara University, School of Engineering   Santa Clara, CA
- Major*: Electrical & Computer Engineering*   *Graduated June 2020*
- Minor*: Computer Science & Engineering*

RELEVANT EXPERIENCE

Robotics Systems Lab – Santa Clara University   Santa Clara, CA
Satellite Operator and Engineering Intern   *June 2019 – March 2020*
- Utilized ground station software and hardware to perform round-the-clock mission-critical tests, calibrations, and communication to ensure reliable uplink to NASA and private industry satellites
- Received Technician Class Amateur Radio License and worked with the Campus Safety Director to develop emergency communication between SCU satellite facilities

Underwriters Laboratory   Fremont, CA
Web Development Intern   *June 2019 – August 2019*
- Tested and developed a project management web application for all UL offices that resulted in significant time and cost savings
- Found 200+ bugs and issues using Python and the Selenium library to create scripts that simulated user activity within all modules of the web app
- Fixed bugs within GitHub repository using MongoDB, React.js, and Node.js

Mobile Solar   Atascadero, CA
Engineering Intern   *June 2018 – July 2018*
- Created electrical schematics using CAD software to obtain city permits for customers
- Used Excel to code self-populating line-setting tickets that efficiently provided factory workers with detailed model specifications for ongoing orders
- Assembled off-grid solar array units and performed quality assessments

RELEVANT PROJECTS AND COURSEWORK

Adaptive Navigation Utilizing a Drone Cluster, Senior Design
- Researched, designed, and integrated communication and control systems to fly multiple drones simultaneously as a single cluster
- Worked with group members to document, present, and demonstrate our drone system for research on adaptive navigation

Advanced Computer Architecture
- Built and simulated five-stage pipeline with hazard detection, forwarding, and caching using Verilog

PCB Speaker, Junior Design
- Used Eagle to create schematic and layout for a speaker PCB

Additional Coursework
- Real-Time Embedded Systems, Digital Signal Processing, Digital Integrated Circuit Design

ADDITIONAL SKILLS AND LICENSES

- Coding Languages: C/C++, Python, JavaScript, Verilog, ARM Assembly
- Software: MATLAB, Eagle, Synopsis Custom Compiler, Vivado, LTspice, LabVIEW
- Licenses: FAA Small UAS License, Technician Class Amateur Radio License

INTERESTS

- Investing, Traveling, Fishing, Surfing, Skiing