

DANIEL DAUGHERTY

*Mechanical Engineer
Product Designer*

CONTACT

daniel_daugherty@berkeley.edu
256-529-2315
ddaugherty97.github.io/Portfolio

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

- Aug. 2019 - May 2020
- Master's of Engineering in Mechanical Engineering
- Concentration in Product Design

YONSEI UNIVERSITY

- Feb. 2018 - June 2018
- Exchange student

OLIN COLLEGE OF ENGINEERING

- Aug 2015 - May 2019
- BS in Mechanical Engineering
- Recipient of 4-year, 50% Olin Merit Scholarship
- **GPA: 3.75**

EXPERIENCE

MASTER'S CAPSTONE WITH BLUE GOJI

Berkeley, CA, Sept. 2019 - May 2020

Team Leader and Product Developer

- Developing active VR experiences with the Blue Goji Infinity treadmill hardware to diagnose fall risk in older adults
- Machine learning classification to analyze parameters of a user's gait cycle

RAYTHEON BBN TECHNOLOGIES, Cambridge, MA, Jun. 2017 - Aug 2019

Sensors and Software Developer Intern

- Responsible for writing MatLab scripts used to decode sensor data for the Ohio Replacement Submarine engine systems
- Developed C++ scripts and embedded C applications to test software features in a docker environment

SHOPDROPROLL LLC,

Needham, MA, Sept. 2017 - Aug. 2019

Co-Founder and Mechanical Designer

- Developed a wheelchair attachment that provides accessible storage for the user
- Finalist for the "Move it" Lemelson-MIT Student Prize Competition
- Awarded "Outside the Tank" at the Northeast Arc Tank Competition
- Finalist at the Babson Entrepreneurial Thought and Action Competition

SENIOR CAPSTONE WITH TOYOTA, Needham, MA, Aug. 2018 - May 2019

Human Centered Designer

- Developed a camera system to empower power wheelchair users to more comfortably navigate difficult environments
- Conducted 15 user interviews and collected data from over 100 users with a Qualtrics survey
- Listed as a co-designer on a patent for our design filed by Toyota

SAIC

Huntsville, AL, May 2016 - Aug. 2016

Software Developer Intern

- Responsible for writing and testing over 1500 Link 16 message decoders in C#, based on MIL-STD documentation

Granted **Classified** Security Clearance

Code

- C, C++, C#
- MatLab
- Python
- Java

CAD

- Solidworks
- Fusion 360
- PTC Creo
- OnShape

Software Programs

- Github
- OpenGL, OpenCV
- ROS
- Arduino
- Unity