

Rowan Sharman

Mechatronics Engineer
rowansharman.com

Experience

Optimus Ride

Mechatronics Intern

Boston, MA

Summer 2019

- Prototyped, designed, fabricated, analyzed, and documented mechatronic systems for an autonomous vehicle
- Modeled, optimized, and documented sensor blind spots

Shell TechWorks

Integration and Test Intern

Cambridge, MA

Summer 2018

Worked on several new products in various stages of development, from initial ideation and proof-of-concept prototypes to reliability test design for production-stage products.

Olin College SAE Mini Baja

Fabrication Lead

Needham, MA

2018 to Current

Baja is a student-run build team that designs and fabricates a rugged off-road vehicle and races it annually in national competitions.

- Participate in design at all levels to facilitate manufacture, maintenance, and repair
- Manage in-house fabrication
- Manage emergency repairs during competition
- Guide new members in design and machine shop operations
- Communicate with subteam leads and co-captains to ensure smooth integration
- Manage and assign tasks for on-time completion
- Served as electrical subteam lead in 2017-18 build season

Rowan's Shop

Owner and Mechanic

Gustavus, Alaska

2010 to Current

A bicycle repair shop and town handyman, doing everything from carpentry projects to fixing lawnmowers, replacing phone screens, and installing cell signal boosters.

Blind Sailing Research

Student Researcher

Needham, MA

Summer 2017

- Worked on development of new system and updates to an old system which allow blind sailors to participate in match racing competitions.
- Developed a solid state 'tack indicator' which aims to replace hazardous and unreliable mercury switch tack indicators used around the world.
 - Mechanical and electrical design, PCB design, programming
 - Manufactured first 10 units
- Communicated with blind sailors, guides, and dock personnel to identify needs and areas for improvement in setup and use of equipment; provided iterative improvements.

University of Alaska Fairbanks

Field Research Assistant

Glacier Bay, Alaska

Summer 2015, Summer 2016

Worked for two summers on geomorphological research.

- Transported and operated geological research equipment and boats.
- Responsible for safety of team while working in extremely remote, high-stakes, backcountry environments.

National Park Service

Intern

Glacier Bay, Alaska

Spring 2015

- Performed maintenance on boats, cars, and heavy equipment, including replacing parts, making adjustments, designing and fabricating parts and systems, diagnosing problems, and tuning engines.
- Operated equipment such as bridge crane and skid steer.

Education

Olin College of Engineering

B.S. Candidate 2020

Engineering: Mechatronics

Montana State University

Honors College non-degree 2015-16

General Engineering

Skills

SolidWorks

Fusion 360

Mechanical and Electrical Design, Prototyping, and Manufacturing

Programming Languages

Python

Arduino C

Java

MATLAB

Mathematica

Tools

CNC and Manual Mill

Lathe

CNC Router

MIG Welder

Sheet Metal Fabrication

3D Printer

Laser Cutter

Band Saw

Drill Press

Chop Saw

Table Saw

Soldering Iron

Electronic Test Equipment

Extensive experience with common hand and power tools

Info

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