

Benjamin Isaac Green

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Work Experience

Second Order Effects

Engineering Intern (Apr-Sep. 2020, Jun-Sep. 2021)

- Developed and integrated a PCB for automotive testing applications
- Designed system architecture, and aided in schematic capture for the avionics system in a commercial satellite
- Wrote scripts to aid in data acquisition for environmental testing and qualification
- Wrote scripts to automate component derating for aerospace applications

Oregon State University

Teaching Assistant (Sep. 2019 – Apr. 2022)

- Led weekly labs for introductory computer science students in CS 162
- Taught introductory C++ concepts and syntax
- Worked with faculty to improve future courses

Oregon State University

CEOAS research assistant (Jan. 2020 – Jun. 2021)

- Worked with faculty to develop autonomous ocean vessels for oceanographic research
- Documented and assembled electronics systems for controlling ocean vessels and remote communication

Education

Oregon State University

B.S. Science (Sep. 2018 – Jun. 2022)

- Major: Electrical and Computer Engineering (3.9 GPA)
- Minor: Computer Science (4.0 GPA)

Hobbies & Interests

- Video games & game development
- Downhill skiing
- Black & White photography
- Ceramics and pottery
- Well-formatted datasheets

Clubs and Activities

OSU Robotics Club

Mars Rover Robotics (Sep. 2018 – Present)

- Worked with peers to redesign and improve our robot for annual international rover competitions
- Used Altium to design several PCBs for sensing, actuating, and power monitoring and protection
- Wrote firmware for PCBs using Arduino IDE and Microchip Studio

OSU Robotics Club

Underwater Robotics (Sep. 2018 – Nov. 2019)

- Worked with senior members to design an ROV for the annual international MATE competition
- Used CircuitMaker to place and route PCBs used for sensor measurement

OSU Magnetics Laboratory

Student Researcher (Jan. 2019 – Jun. 2020)

- Created a LabView program to project patterns of polarized light for use in Kerr Microscopy
- Learned the procedures and theory for operating the OSU SQUID Magnetometer, and taught other faculty these procedures

FIRST Robotics

FRC Team 2733 (Jan. 2016 – Present)

- Participated in yearly robotics competitions run by FIRST (2016 – 2018)
- Helping as a team mentor to support robotics programs in early education (2018 – Present)

Technical Skills & Experience

- Board design using Altium
- LtSpice, PLECS, Modelsim simulation tools
- C/C++ for both embedded and Linux
- Python for scripting and automation
- SMD soldering and reworking
- Coursework in power electronics, VLSI, video & audio codecs, robotics, operating systems, and embedded system design
- Always willing to learn new skills