

Ryan Slocum

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EDUCATION

University of Colorado Boulder

Aug 2020–May 2024

Bachelor of Science, Computer Science – 3.99 GPA

Boulder, CO

- Minor in Leadership Studies and Certificate in Engineering Leadership
- Taking graduate courses through Accelerated Masters Program
- Relevant Coursework: Advanced Robotics, Machine Learning, Operating Systems, Algorithms

TECHNICAL SKILLS

Languages: C/C++, C#, JavaScript, Python, Swift, MySQL, MongoDB

Frameworks: ROS, Node.js, .NET Core

Developer Tools: Git, Docker, Github Actions, Xcode, VS Code, Visual Studio

Hardware: 3D Printing, SolidWorks (CSWA), Arduino, Soldering, Digital Logic

EXPERIENCE

Software Engineer Intern

May 2023 – Jul 2023

Outrider

Brighton, CO

- Led transition in firmware testing infrastructure from Robot Framework to Python
- Worked with Hardware-in-the-Loop tester to assess flaws in vehicle controller and monitor firmware

Robotics Intern

May 2022 – Feb 2023

Company Six (Sphero spin-off)

Boulder, CO

- Managed development and user testing of CO6's consumer-facing iOS application as primary developer
- Contributed to C embedded software by developing and testing new robot behaviors
- Assisted in additional startup related tasks, including robot repair and wrangling, cloud back-end development, destructive mechanical testing, and recruiting

Software Engineer Intern

May 2021 – Aug 2021

Accu-Precision

Littleton, CO

- Developed C# desktop applications to expedite manual entry process and save hours in inspection time each week
- Implemented post-processor safety measures in CNC lathes and mills to prevent costly machine crashes
- Improved operations efficiency through development of MySQL stored procedures aimed at tracking transparency

Teaching Assistant

Aug 2021 – Dec 2021

University of Colorado

Boulder, CO

- Supervised six first-year Engineering Projects teams, providing training and support through full product life cycle
- Assisted students in usage of various tools including rapid prototyping equipment, electronics, and Arduino
- Communicated with team of TAs and professors to organize an event for students to showcase their work

PROJECTS

Topographic Map Carver

Dec 2021 – Feb 2021

- Converted 3D printer into CNC mill using rotary tool and 3D printed parts
- Wrote Python software pipeline to take topographic elevation data and convert it to Gcode toolpaths

Collaborative Graphing Application

Feb 2022 – May 2022

- Developed a web application to allow users to place items or people on a two-dimensional graph
- Responsible for all back-end development, server communication, and deployment

AFFILIATIONS

Scholar & Website Administrator

Aug 2020 - Present

Presidents Leadership Class

Boulder, CO

- Taken three years of leadership development curriculum intended to generate extraordinary leaders of character
- Responsible for maintaining program website and managing student and alumni data