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# Ethan L. Perry

## SKILLS

**Full Stack Development** - UI/UX Design, Vue, Svelte, KnockoutJS, TypeScript, NodeJS, Flask, Java, SQL Agile Development.

**Hardware and IoT** - Python, C++, Microcontrollers, Arduino and Raspberry Pi, Sensors, and Robots.

## EDUCATION

### Colorado School of Mines, Golden, CO — *Computer Science*

Anticipated Graduation - May 2021

- **GPA:** 4.0/4.0 - Dean's List
- **Applicable Coursework:** Data structures, Linux OS, Discrete Math, Software Engineering, Computer Organization, Database Management.
- **Upcoming Coursework**: Principles of Programming Languages, Algorithms, Advanced Software Engineering, Networks.
- **Independent Studies:** Interactive Media Display, HCI + Motion Tracking Cameras, IOT Systems for Smart Buildings, Ethics of Computer Consciousness.
- **Activities:** Association of Computational Machinery, Linux Users Group, Club Triathlon, Residence Life Ambassadors, Band, Orchestra, and Marching Band.

## EXPERIENCE

### Microsoft, Redmond, WA — *Azure Quantum - Software Engineering Intern*

Summer 2020

- Developed a variety of new and experimental features for the Microsoft Azure Quantum Portal.
- Constructed engaging data visualizations and toolsets to enhance customer experience.
- Established significant knowledge of front-end development and how the software stack fits together.
- Made a real business impact for Microsoft by releasing several new features to production.

### Lockheed Martin Corporation, Deer Creek, CO — *Software Engineering Intern*

July 2019 - May 2020

- Developed internal software and tools, ranging from web-based applications to simulations.
- Combined IoT with web applications using Raspberry Pi and Python.
- Collaborated with management to interview and hire five new interns for summer 2020.

### Alpine Coffee Company, Englewood, CO — *Software & Web Developer*

December 2014 - May 2020

- Promoted sales as the lead developer and designer of the company website and store.
- Managed company server and database.
- Deployed several custom IOT and automation solutions, speeding up manufacturing and packaging of coffee.

## LEADERSHIP / VOLUNTEERING

**Wild 4 STEM Club & Summer Camp -** Founder & organizer of this STEM program for low socioeconomic elementary schools.

**Eagle Scout with Silver Palm** - Awarded 'Eagle Scout Project of the Year' for my district.

**Intro to Comp Sci, Data Structures, and Database Management TA -** Grader, lab assistant, tutor, and mentor for beginning through advanced CS students at School of Mines.

**Secretary of Club Triathlon** - Committed member of the team, helping keep meetings and workouts organized and efficient.

## PROJECTS / RESEARCH

**The Influence of Social Embarrassment on Engagement with Public Digital Displays** - Co-first author of this work accepted for publishing in Springer CCIS Proceedings.

**Relay Node Placement for IOT Networks with Imperfect Communication Ranges** - Ongoing research focused on development of a novel relay node placement algorithm for practical, indoor settings.

**Interactive Media Display** - An interactive web application displayed on kiosks around campus for the community members of School of Mines.

**IOT Systems for Smart Buildings** - Independent study focused on developing a reliable and affordable IOT and network management system for use in modern smart buildings.

**Low-Power Ad Hoc Networks** - Research project focused on a novel, hybrid routing protocol for distributed wireless networks.

**Ethics of Computer Consciousness** - Independent study and research on ethics surrounding the concept of simulated/computer consciousness.

## AWARDS

**The Boettcher Scholarship** - Highly competitive scholarship program offered to 42 Colorado Students.

**The Harvey Scholarship** - Awarded to 16 of 1500 incoming students at School of Mines.

**Mines Undergraduate Research Fellowship** - Funded research fellowship offered to 130 school-wide.