

430 Canyon Point Circle Unit A
Golden, Colorado 80403

Sebastian Cabrol
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Education

Colorado School of Mines, Golden, CO
Major: Computer Science – Robotics and
Intelligent Systems

B.S. Dec 2019
GPA: 3.413

Awards & Honors:

- C-MAPP Scholar
- President's Undergraduate Scholarship

Work Experience

Colorado School of Mines, Golden, CO Summer 2018 – Present

Research Assistant – Augmented Reality for Human-Robot Interaction

- Refactoring C code defining a virtual robotic arm movements for augmented reality
- Working in JavaScript to design and run experiments
 - Co-author to a paper based off of experiments published to the HRI conference

Project Experience

Advanced Software Engineering - Front End Website Design

- Worked primarily in JavaScript, HTML, and CSS
- Communicated with a backend server using XML and Node.js

Robotics Club - 1st Place Applied Collegiate Exoskeleton Competition (ACE)

- Lead Programmer ensuring that all code was kept error free and on schedule
- Programmed in C++, working with sensor data and motor actuation
- Used a series elastic linear actuation design

Personal Projects - Machine Learning

- Developed neural networks to achieve simple tasks in TensorFlow
- Gone over multitudes of example programs and altered them for different functionalities

Programming & Technical Skills

- **Programming Languages:** Python, C++, Java, JavaScript, HTML, CSS
- **Skills:** Algorithms, Operating Systems, Data Structures, TensorFlow, Software Engineering, Linux, Computer Organization, Discrete Math, Linear Algebra, GitHub
- **Applications:** Microsoft Excel, Word, PowerPoint
- **Other:** Project Management, Budgeting, Scheduling, Creative Problem Solver, Technical Writing, Strong Team Skills, Organized

Activities & Interests

- Robotics Club
- Karate (Purple Belt)