

# CHRISTIAN PRATHER

## AI Robotics Engineer

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### SUMMARY

Looking for opportunities to advance my skill set in robotics and AI. Highly motivated and passionate. I am particularly interested in ML /AI and how it can be applied in robotics to aid those with medical conditions or the elderly.

### EXPERIENCE

## AI Robotics Engineer

**LUCI Mobility, Inc** 05/2021 - Present Wheat Ridge, CO

- Developed assistive technology for power wheelchair users including computer vision based navigation systems, collision avoidance with sensor fusion, SLAM.
- Managed 2-year long project with large scale code repository and safety critical verification.
- Required functional knowledge of C, C++, Python, gRPC and the creation of custom OS with the YOCTO development suite.

## Software Engineering Intern

**LUCI, LLC** 01/2019 - 05/2021 Arvada, CO

- Developed interface for wheelchair to external processing computer. Managed the architecture, training and testing of an ML based handicap feature recognition system running on quad-core ARM architecture.

## Lead Technician

**IDEA Lab - Red Rocks Community College** 04/2018 - 01/2019  
Lakewood, CO

- Lead students through engineering projects and ideas

### EDUCATION

## Bachelors in Computer Science with a specialization in AI and Robotics

**Colorado School of Mines**

08/2019 - 05/2021 Golden, CO

- Degree in Computer Science specializing in AI and Robotics. Earned merit and need based scholarships totalling a full ride.

## Computer Science

**Red Rocks Community College**

08/2016 - 05/2019 Lakewood, CO

- Full time student involved in several groups including Phi Theta Kappa Honor Society, Head of Robotics Club. Earned multiple merit and need based scholarships totalling in a full ride.

### SKILLS

High performing in C, C++, Python, Arduino, TensorFlow, Docker, gRPC, ROS 1&2, Gazebo, CAN protocol and YOCTO OS development

Proficient in SolidWorks, FreeCAD, KiCad, Eagle CAD, Rust

An ability to understand the balance between creating the best technology no one ever sees and the worst technology released too early

Strong project management background

### AWARDS

#### 🏆 Achievement and Excellence Award (Mines)

Received for excelling in courses while undergoing Chemo in 2020.

#### 🏆 PATHS Scholarship (Mines)

Recipient of PATHS, a highly competitive and selective merit/need based scholarship awarded by the head of the CS department.

### ACHIEVEMENTS

#### 📄 Patent Pending US 10,656,652 B2

The creation of an autonomous navigation system for power wheelchairs in both home and van ramps.