

# Adam Driscoll

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## EDUCATION

### Carnegie Mellon University, School of Computer Science

Master of Science in Robotic Systems Development, QPA 3.93/4.33

Fall 2017 Selected Coursework: Machine Learning | Manipulation, Estimation, and Control

Spring 2018 Selected Coursework: Robot Autonomy | Computer Vision

Pittsburgh, PA

December 2018

### Worcester Polytechnic Institute

Bachelor of Science in Robotics Engineering

Worcester, MA

May 2012

## ACADEMIC PROJECTS

### GroundsBot, [www.groundsbot.com](http://www.groundsbot.com)

Carnegie Mellon University

#### Computer Vision Lead

September 2017 – May 2018

- Designing an autonomous field robot capable of mowing the rough grass at a golf course with no additional infrastructure necessary
- Fusing data from a stereo camera, RTK GPS, IMU, and encoders using C++ to create a robust perception and localization subsystems
- Created GPS waypoint following and acceleration smoothing algorithms used in the navigation subsystem of GroundsBot

### Autonomous Wheelchair

Northeastern University

#### Research Assistant

February – May 2017

- Programmed an autonomous wheelchair to transport elderly people from a nursing home to the Northeastern campus
- Researched existing SLAM algorithms to determine best algorithm for application, ultimately implementing the Cartographer system using ROS

### Autonomous Mapping Robot

Worcester Polytechnic Institute

#### Software Developer

March – April 2011

- Developed mobile robot using Java to autonomously map and navigate a small hallway with static obstacle avoidance
- Utilized a combination of ultrasonic sensors and encoders to localize, perceive, and map environment

## PROFESSIONAL EXPERIENCE

### Amazon Robotics

North Reading, MA

#### Operational Stability Engineer

July 2015 – February 2017

- Developed over 20 automation tools to replace manual task execution and reduce system failures
- Led more than 100 high severity calls with general and regional directors to resolve critical software issues
- Provided technical guidance to 120 zones across 36 Amazon Fulfillment centers to identify and resolve operational challenges
- Analyzed over 200 complex software issues to identify root causes

#### Project: Support Scripts Package

- Managed a suite of Bash scripts designed to automate common support tasks to increase efficiency
- Developed new features and scripts to optimize and build upon current features
- Collaborated with development teams to identify bugs and implement new features

#### Field Service Engineer

February 2013 – July 2015

- Promoted optimal hardware functionality by providing clients with on-site and remote technical services
- Troubleshoot errors on all hardware components of the Amazon Robotics solution using a combination of MySQL queries and internally developed hardware testing tools

#### Project: Commercial Client Health Dashboard

- Created a set of MySQL queries to collect data from 29 commercial client facilities
- Aggregated and presented this data in a user friendly, graphical format using internally developed tools to allow maintenance teams to efficiently analyze warehouse status

## SKILLS

**Programming Languages:** Python, C++, Bash, MySQL, Java, C

**Frameworks and Operating Systems:** Linux (Ubuntu, Red Hat), ROS, Git