

Adam Driscoll

joseph.adam.driscoll@gmail.com · (781) 724-5442 · www.linkedin.com/in/adam-driscoll/

EDUCATION

Carnegie Mellon University, School of Computer Science

Master of Science in Robotic Systems Development

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

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
- Implementing online machine learning algorithms to classify the different types of grass on a golf course

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