Jacqueline Scanlon

Software Engineer

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Summary

Driven software engineer excited about future mobility & its use of robot autonomy. Passion for learning new programming languages & tackling hard problems in fast-paced environments. Detail-oriented & ready to work on innovative embedded software systems.

Work Experience

Software Engineer | June 2019 – Present

Aurora Flight Sciences, A Boeing Company – Cambridge, MA

- Designing & building autonomous flight software for use in commercial & government programs
- Implementing mission management & ground station systems with a focus on mission planning, taxiing, & human-machine interface
- Writing requirements, designing behaviors, implementing software, & testing in simulation & flight test environments

Projects & Internship Experience

Project: Simulated Search & Rescue Robot | 2019

- Implemented simulated autonomous robot using ROS & Python within Ubuntu environment
- Developed localization & path planning abilities for survivor rescue at known locations using noisy LiDAR input

Project: Duckiebot Autonomous Vehicle | 2018

- Built & programmed a small-scale mobile robot that drives autonomously through a course using ROS & Python
- Developed path planning & following, object detection & avoidance using onboard camera & computer vision

Internship: eVTOL Autonomous Airplane | 2018

Aurora Flight Sciences, A Boeing Company – Manassas, VA

- Implemented situational awareness functions & satellite communications software for electric, vertical takeoff & landing (eVTOL) aircraft using C++

Project: Corning Autonomous Commissioning Robot | 2017

- Led team of 8 to design, build & test autonomous robot for Corning Inc. to commission wireless systems using LiDAR, Microsoft Kinect, Raspberry Pi
- Developed in ROS & Gazebo to localize & plan given goal locations

Programming Languages

- Simulink
- Matlab
- Python
- Bash
- C++
- Java

Technologies

- Linux
- Git
- ROS & Gazebo
- RTI DDS
- Agile
- Gitlab
- Jira & Confluence
- BitBucket
- Agile

Education

Rensselaer Polytechnic Institute
Troy, NY | 3.96 GPA | 2018-19
M.S. Electrical Engineering: Control & Robotics

- Summa Cum Laude
- RPI Co-Terminal Program

Rensselaer Polytechnic Institute
Troy, NY | 3.87 GPA | 2015-18
B.S. Electrical Engineering

- Magna Cum Laude
- Founder's Award of Excellence Recipient