PETER JOCHEM

Portfolio: https://peterjochem.github.io/Portfolio
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EDUCATION

Northwestern University, Evanston, IL *September 2019 - December 2020*
Masters in Robotics GPA: 3.8
Department of Mechanical Engineering

University of Wisconsin, Madison, WI *September 2015 - May 2019*
Bachelors of Computer Science GPA: 3.9

PROJECTS

ROS Navigation Stack

- Built navigation stack from scratch for differential drive robot
- Ran software on Turtlebot3
- More details at https://github.com/PeterJochem/Turtlebot_Navigation

Go Robot

- Programmed robotic arm to play Go
- Utilized ROS, Gazebo, and MoveIt
- More details at https://github.com/PeterJochem/Go_Bot

TECHNICAL SKILLS

Python, C++, ROS, C, React, Git, Linux, Java, SQL, Tensorflow/Keras, VREP, Gazebo, OpenCV, HTML, CSS, Javascript, Microsoft Azure, bash, vim, numpy, sympy, machine learning, computer vision

WORK EXPERIENCE

YPC Technologies, Montreal QC 2021 - Present
Software Engineer

Developed software for robotic kitchen - motion planning and control of UR5 and operations research techniques for efficient scheduling of cooking operations.

Saga Robotics, Ithaca NY Summer 2020
Software Engineering Intern

Wrote software for agricultural robots. Primarily wrote an application to take satellite images of vineyards and compute each row's location. This allows for the robot's path to be created with minimal human labor.

General Atomics, San Diego Summer 2018
Software Engineering Intern

Worked in the automation and autonomy department. Utilized Microsoft Azure APIs to build a natural language processor. The program could intake the audio of multiple air traffic control streams and summarize it. The program also included an interactive GUI to cleanly present the summaries to pilots. Presented work to VP of Engineering. The proof of concept project is being further developed and will be incorporated into General Atomics platform.