FEILAN JIANG

3B Mechatronics Engineering | Seeking 4-Month Placements

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EXPERIENCE

Infrastructure Engineering Intern

Uber ATG

M Sep. 2019 - Dec. 2019

San Francisco, CA

- Developed an AWS pipeline for storing and searching thousands of calibration files, helping to enable one-touch calibration for any internal LiDAR sensor
- Created a time-saving Python tool that runs containerized calibration algorithms without needing individual Docker commands
- Modularized the Docker services of a sensor calibration suite, allowing for easier deployment to the cloud and orchestration using Kubernetes

Localization and Mapping Developer

Avidbots

🛗 Jan. 2019 - Apr. 2019

- Created an automated ROS LiDAR calibration system used to prepare dozens of floorscrubbing robots for the company's clients
- Designed a custom visual SLAM algorithm in C++ that assists with cleaning-plan startpose correction and map symmetry-breaking

ADAS Software Developer

BlackBerry QNX

May 2018 - Aug. 2018

Ottawa, ON

- Enhanced a LiDAR driver by developing a point-cloud joining feature that shortens each library usage by up to 100 lines of C++ code
- Created a LiDAR object-detector demo used to introduce developers to PCL library features such as point-cloud downsampling and object segmentation

PROJECTS & ACTIVITIES

WATonomous Perception Team Member %

- Serving as a computer vision engineer on a student team developing a level-4 autonomous vehicle for the SAE AutoDrive challenge
- Currently using OpenCV to implement detection and classification algorithms for roadlines and street signs

Autonomous Mobile Robot %

- Developing a wheeled robot that is controlled using various hand gestures
- Uses the ROS software stack and Gmapping SLAM algorithm for autonomous navigation
- Performs hand gesture recognition using OpenCV and the Hand3D hand pose-estimation model

SKILLS



LANGUAGES

C++	~4 Years
Python	~3 Years
С	~2 Years
JavaScript	~1.5 Years

EDUCATION

BASc Mechatronics Eng. University of Waterloo

🗎 Sep. 2016 - Apr. 2021

INTERESTS

Classical Piano	
Taekwondo	PC Building
Food Lover	Music Lover
Car Enthusiast	