

FEILAN JIANG

3B Mechatronics Engineering

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EXPERIENCE

ML and Computer Vision Intern

Microsoft Corporation

📅 May 2020 -

📍 Seattle, WA (Remote Internship)

- Using image processing and deep learning to automate key manufacturing quality checks

Infrastructure Engineering Intern

Uber ATG

📅 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

Localization and Mapping Developer

Avidbots Corp.

📅 Jan. 2019 - Apr. 2019

📍 Kitchener, ON

- Created an automated ROS LiDAR calibration system used to prepare dozens of floor-scrubbing robots for the company's clients
- Designed a custom visual SLAM algorithm that assists with cleaning-plan start-pose 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 lanes and roadlines

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
- Currently implementing hand gesture recognition using OpenCV and the Hand3D hand pose-estimation model

SKILLS

ROS PCL OpenCV

TF/Keras PyTorch

AWS Docker

Kubernetes

Boost NumPy

Matplotlib SQL

OpenGL

Git Bash Scripting

SVN GDB Valgrind

Ubuntu QNX Neutrino

SOLIDWORKS AutoCAD

3D Printing Soldering

Machining

LANGUAGES

C++ ~4 Years

Python ~3 Years

C ~2 Years

JavaScript ~1.5 Years

EDUCATION

BASc Mechatronics Eng.

University of Waterloo

📅 Sep. 2016 - Apr. 2021

INTERESTS

Fitness PC Building

Cooking Music Lover

Car Enthusiast

Sim Racing