

# FEILAN JIANG

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## EXPERIENCE

### ML and Computer Vision Intern

Microsoft Corporation

📅 May 2020 -

📍 Redmond, 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 LiDAR test 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
- Prototyped a custom visual SLAM algorithm to assist 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 with a point-cloud merging feature that shortens each library usage by up to 100 lines of C++ code
- Created and deployed an object-detection demo to showcase the ADAS stack's point-cloud downsampling and segmentation capabilities

## PROJECTS & ACTIVITIES

### Future Undergraduate Student Researcher 🔗

- Research areas are perception and navigation in the self-driving space

### WATonomous Perception Team Member 🔗

- Currently a computer vision engineer on a student team developing a level-4 autonomous vehicle for the SAE AutoDrive challenge
- Implemented a traditional computer vision-based lane detection system in OpenCV and ROS

### Autonomous Mobile Robot 🔗

- Developing a mobile robot that is controlled by hand gestures and uses the ROS navigation stack
- Currently experimenting with navigation technologies such as path-planning, SLAM, and obstacle avoidance

## 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

Sim Racing

Reading