

HENRY KAN CHEN

Self-Driving Vehicle Researcher / I&C Engineer

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Objective

To bring about a driverless revolution with self-driving vehicles and help to shape the future of transportation and urban life.

Professional Experience

Self-Driving Vehicle Researcher

Waterloo Centre for Automotive Research

University of Waterloo

- Designing and adding exterior signal lights to the “Autonomoose” self-driving vehicle to facilitate pedestrian communication
- Integrating with camera, lidar, wheel speed sensors, through ROS, to perform pedestrian detection and signal light control
- Facilitating vehicle to infrastructure (V2I) communication using RF transmitters and bluetooth devices
- Working with the SAE J3134 automated driving system lamps task force to develop an international signal light standard for driverless vehicles
- Proficient with Python / C++, machine learning, and reinforcement learning

Process Instrumentation & Control Engineer

TC Energy (formally TransCanada pipelines)

Calgary AB

- Design complex automated process control systems for large industrial facilities
- Integrate sensors and actuators into scalable engineered solutions that can be efficiently deployed
- Quarterback the company’s technology project management framework, took 3 large projects from conception to completion
- Once, led a \$3.5M control system upgrade project, working with limited resources and staff, upgraded 150+ facilities over 3 years. As the result, facilities became safer and more reliable.

System Integration & Embedded Software Intern

General Electric Canada Inc.

Calgary AB

- Develop test tools for embedded software used in power transmission controllers

Education

Masters of Mathematics in Computer Science

University of Waterloo

Expected Graduation Date: 2019/10

Bachelor of Science in Computer Engineering

University of Calgary

Graduated with Distinction