# Samantha Wang

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## **SKILLS**

Programming Languages	Tools and Platforms	Languages
· Python	· Agile methodology	· Fluent English
·C	· Git	· Fluent Mandarin Chinese
· Matlab Simulink	· Jira	

# **WORK EXPERIENCE**

# SENIOR SOFTWARE CONTROLS ENGINEER | RIVIAN | SEPT 2021 - PRESENT

- · Develop controls software for energy storage products using Matlab Simulink and C
- · Write software requirements and design diagnostics to meet ANSI and IEEE 1547 standards for electric power systems, distributed energy resources and their communication
- · Create Python tools for software code generation, error checking, and data visualization
- · Worked cross-functionally in an Agile environment focused on CI/CD

# SOFTWARE ENGINEER, SCRUM LEAD | GENERAL MOTORS | AUG 2018 - SEPT 2021

- · Led software development of column shifter using industry-leading SENT communication
- · Developed software to read column shifter movements and interpret desired range of user
- · Managed work and progress for 14-member scrum
- Designed safety-critical, requirements-based algorithms in C for features such as Driver Exit AutoPark, Key Off AutoPark, and Neutral Double Tap
- · Coordinated directly with suppliers to communicate requirements
- · Worked with systems and validation engineers from conceptual design to working product
- · Troubleshot system-level problems across multiple embedded controllers
- · Tested software changes in SIL/HIL simulations and in vehicles

## HARDWARE TEST ENGINEERING INTERN | APPLE | SUMMER 2017

- · Designed test fixtures and tests for microphone and speaker validation
- · Performed ANSYS acoustic simulations using finite element analysis

# SOFTWARE ENGINEERING INTERN | DELL SONICWALL | SUMMER 2016

- · Researched and applied machine learning algorithms to website text classification
- Wrote Python scripts for data analysis

## TEST AUTOMATION INTERN | SPICEWORKS | SUMMER 2015

- · Worked on both manual and automated software testing of web application
- · Used Ruby on Rails and Watir-Webdriver framework
- · Created internal application for test result visualization using Jenkins, MongoDB, and PostGres APIs

# **EDUCATION**

#### CARNEGIE MELLON UNIVERSITY | PITTSBURGH, PA

M.S Electrical and Computer Engineering May 2018
B.S. Electrical and Computer Engineering May 2017
Minors: Operations Management, Supply Chain Management, Audio Engineering

#### **PUBLICATIONS**

### HIRERANK: A NEW METHOD FOR RANKING UNIVERSITY GRADUATE PROGRAMS

Co-Authored with Bolun Huang and Dr. Narasimha Reddy

· Published by the American Society for Engineering Education – April 2015