Shogo Nakamura

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Professional Experience

01/2021 – Present **Embedded Software Engineer,** *Rivian*
- Design embedded systems software by applying principles of computer science, engineering, and mathematical analysis.
- Integrate Unit Test Framework into code base to add testing coverage for various embedded functions.
- Utilize tools such as PCAN, CANape, and internal XCP tools to debug and analyze the inverter.
- Implement functional safety requirements to achieve ASIL-D and ISO-26262 compliance.

06/2018 – 03/2020 **Quality Assurance Engineer Intern,** *Prism Software*
- Implemented 100+ test cases in Python3 for unit testing (PyTest) using the company's API which helped decrease regression testing time by more than 50%.
- Collaborated in developing a framework that installs the latest build, pulls the latest code changes from GitHub, executes over 400 test cases, emails the test results, and uploads the test results to Jira.
- Automated incoming bug tickets to be sorted by priority and introduced a verification system in which to decide whether the bug is reproducible or not.

Projects

03/2020 – 04/2020 **Portfolio**
- Implemented portfolio from scratch using various scripting languages to showcase personal goals and achievements.

01/2020 – 03/2020 **Volt-meter**
- Collaborated to design a breadboard circuit using an Atmega32 Microcontroller that reads voltage and displays the average, minimum, maximum, and current voltage.

Education

09/2017 – 03/2020 **University of California, Irvine,** *Computer Science, B.S.*

Proficient Programming Languages

- C
- Python3
- C++

Tools and skills

- UDS over CAN
- XCP over CAN
- CANope
- Pcan-view
- GTest
- Busmaster
- Oscilloscope
- Git