Vincent Kim

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SUMMARY

Embedded Software Consultant with 3 years of experience in embedded software / RTOS and project management.

SKILLS

Languages

- Proficient in: Python

- Familiar with: C, Java, C++, JS (Novice), CSS (Novice), HTML (Advanced Novice)

Software

- Frameworks: Django (Advanced Novice), Django REST (Advanced Novice), GatsbyJS (Novice), GraphQL (Novice)

- Libraries: React (Advanced Novice),

- Testing: Compatibility Test Suite (CTS), Vendor Test Suite (VTS)

- PM / VC: RTC, Jira, Harmony, Intel Premier Support, Jenkins, Git, SVN

EXPERIENCE

Green Hills Software   Oct 2018 - Present

Embedded Software Consultant – Development / Project Management – GM Infotainment Project

- **Support / Project Management**:

  Green Hills' INTEGRITY real time operating system is the underlying OS for the infotainment systems of all GM vehicles model year 2020, 21, and 22. It virtualizes Android and manages multiple safety critical components such as chimes, camera, and diagnostics.

  Primary responsibilities include debugging and fixing safety critical issues filed by GM as well as testing and contributing to several feature releases and its design. Additionally, contribute to the Integration Specification and manage other internal RTOS related issues.

- **Tools Development**:

  Implement new features to scripts which sync data from external ticketing software (RTC – GM) to our internal tracking system as well as check and report discrepancies. A virtual machine is responsible for running the scripts which are written in Python and Bash. Utilized Monit as the services manager.

- **Testing Framework**:

  Contribute to internal validation framework. Develop and own tests for features and bugs for the GM project.

  Migrate older internal validation framework (written in intval) to a newer model (python3).

University of California, Santa Cruz   Jun 2017 – Sept 2017

Undergraduate Research Assistant

- Assisted in paper: "An IoT Data Communication Framework for Authenticity and Integrity"- ACM IoTDI 17'

- Extended the protocol to support arbitrary time range query of safety critical data. C++.

- Reviewed, modified, and tested the code which describes the protocol presented in the paper.

EDUCATION

University of California, Santa Cruz   2018

Santa Cruz, CA

- B.S in Computer Science. 3.80 Highest Honors