Kevin **Nguyen**

Embedded Software Engineer

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Professional Summary

Embedded Software Engineer with five years of professional experience in interest of dealing with embedded systems in IoT, automotive, and aerospace. Proficiency in developing software on the driver level. Ample experience exercising the full software development life-cycle which includes leading teams during integration and testing along with prominent communication skills and constructive attitude.

Experience

Northrop Grumman

Rolling Meadows, Illinois

Embedded Software Engineer

Nov. 2019 - Present

- Integrate kernel modules that communicate over multiple SBCs and sensors (I^2C, PCIE)
- Develop camera tracking software
- Work with cross-compilation between architectures for development (ARM, x86_64)
- Setup networks and embedded Linux environments (RedHat, Yocto)
- Assist multiple departments in documentation, design, and testing
- Manage version control and agile development (Atlassian)
- Coded mainly in C++ and C

L&T Technology Services Limited

Peoria, Illinois

Embedded Software Engineer

May 2018 - Nov 2019

- Contracted to multiple companies for Development and Verification: Collins Aerospace, John Deere
- Manage requirements under DO-178C standards
- Produce/Modify test scripts for CAN Protocol verification (Python, Bash, C)
- Facilitate version control (Mercurial)
- Document reports for changes in DOORS requirements and source code

Ayoka Systems

Arlington, Texas

Embedded/Web Developer

Jul. 2017 - May 2018

- Develop software for microcontrollers that require RTOS features
- Worked in embedded Linux environment (Debian)
- Assist in communication between microcontrollers and upload to Amazon S3 (RF, UART, SPI, I^2C, Wifi)
- Experience Validation/Verification process with clients
- Initially intern for six months experiencing:
  - Analyze projects for technical faults
  - Unit Testing
  - Manage repositories (Github)

Skills

Programming	C++, C, Python, Bash, Git, Java
Operating Systems	RedHat, Yocto, Debian
Comm Protocols	I^2C, PCIE, SPI, UART, BLE, RF
Microcontrollers	Raspberry Pi, Arduino, TI
Processors	ARM, x86_64, TI
Languages	English

Education

University of Texas at Arlington

Arlington, Texas

Bachelor of Science in Computer Engineering

Aug. 2014 - May 2018

Extracurricular Activities

Software Capstone Project

University of Texas at Arlington

- Assemble a smart shoe that display images on an E-ink screen via BLE using a nRF52 chip that was sponsored under Bioworld
- Required agile development

Personal Projects

- Designed an alarm system that triggers based on motion and temperature
- Built a TRISC that read instructions on RAM
- Programmed TI microcontrollers to transfer temperature, ambient, and humidity data through RF communication