

Thinh Le

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WORK EXPERIENCE

Software Design Engineer (Contract)

Jan 2019 - Mar 2020

Xilinx, San Jose, CA

- Developed features for internal tools framework to enhance customization, design reuse, and lower barrier of entry for new users
- Tracked and resolved issue tickets on project JIRA and followed agile methods e.g. sprints
- Contributed to error handling methods to reduce unnecessary process execution and runtime by 40-50%
- Planned and prioritized CI/CD automation scope for git repository
- Scaled features horizontally onto machines across multiple regions
- Automated regression tests on nightly intervals with Linux development dependencies and reduced disk usage by 75%

Software Engineer Intern

Aug 2018 - Dec 2018

Lightning Motorcycles, San Jose, CA

- Optimized web host management to reduce landing page loading time by an average 30 seconds
- Automated database transactions such as retrieval of attributes with query scripts
- Developed React app to schedule vehicle test rides and notify events to customers
- Created CI/CD process to support building Docker images and push to a private repository
- Created private cloud with Docker that supports DEV and PROD environments
- Updated software configurations for C++ telemetry application

Firmware Engineer

Sep 2016 - Dec 2018

Formula SAE Electric SJSU, San Jose, CA

- Performed system validation of high voltage modules using a logic analyzer decoding I2C, SPI, CAN protocols
- Developed multithreaded C++ application to display telemetry and calibrations on vehicle dashboard
- Created embedded drivers for vehicle sensing of temperature and voltage
- Planned roadmap for software integrations with hardware teams including mechanical and electrical engineers
- Simulated localization and mapping of vehicle with torque vectoring in Unity and Python

PROJECTS

Home.io *Node, Python, Docker, Jenkins, Grafana, Puppet*

<https://github.com/TimothyLe/pnm>

A monitoring application that gathers sensor data and health checkups from connected devices to display telemetry

SKILLS

<i>Programming</i>	Python, C, C++, Javascript, Shell, SQL
<i>Libraries</i>	Networkx, Django, Flask, TensorFlow, NodeJS, FreeRTOS
<i>Development</i>	Git, JIRA, Jenkins, AWS, Docker, Nginx, OpenVPN, Kubernetes, Puppet, MongoDB, Grafana

EDUCATION

BS Computer Engineer

San Jose State University, San Jose, CA

Dec 2018