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Thinh P. Le

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Technical Experience

EEPROM Manager — **Spartan Racing Electric** — Aug 2016 - Present

- Reading and writing hexadecimal representations of car values to EEPROM in C
- Sending and receiving different data sizes (e.g. ubyte1 or float4) through endian shifts
- Fixing the makefile to compile and link files (Tasking VX compiler)
- Flash code with TTC Downloader and view CAN messages with PCAN-View
- Spot welded battery modules to bus bar and soldered relays for transmission control

Software Team Lead — **Tau Beta Pi California Eta** — Mar 2017 - Present

- Organizing Slack and Trello for communication and tasks across software subteam
- Programming a gimbal with 2 DOF using an Arduino Uno and micro servos
- Set up the serialport server through nodeJS to read and write to the robot

Employment

C Lab Instructor — **SJSU Computer Engineering** — Aug 2016 - Jan 2017

- Taught concepts such as specifiers, conditional statements, and pointers
- Debugging programs in Eclipse Mars IDE
- Analyzed issues with project circuits (GPIO, PWM, LED, accelerometer, sensors)
- Troubleshoot port issues in Hyperload affecting interface to the SJSUOne board
- Assisted students with flashing code through serial in Hercules

Cashier — **Home Depot** — Jan 2017 - May 2017

- Handled customer transactions through friendly service
- Knowledge of tools and appliances and giving advice to customers

Education

San Jose State University — San Jose, CA
Charles W. Davidson College of Engineering
Bachelor of Science, Computer Engineering
Expected Date of Graduation: Dec 2018
GPA: 3.43

Relevant Courses:
Digital Design, Embedded Systems in Electronics, Circuit Analysis, Algorithms and Data Structure Design, Assembly Language Programming, Object-Oriented Concepts and Methodology

Additional Experience and Awards

Bluetooth-Enabled Optic Sensor — San Jose, CA — April 2017

- Drew schematic and created board layout for Ohm meter and Display
- Measured analog signals and used voltage division to extract resistor value for ohm meter
- Followed manufacturer datasheets to ensure proper voltage supply and grounding
- Multiplexed 4 Digit Serial-7 Segment display for a single digit through pin connections
- Implemented MOSFET as a voltage switch to regulate input voltage
- Programmed the Arduino Uno board through Arduino IDE

Buzzer LED Alarm Clock — San Jose, CA — April 2016

- Configured grounds for RGB LED strip for displaying certain colors
- Regulated voltage using MOSFET to prevent short circuits
- Programmed a state machine using switch cases in C for SJSUOne board buttons
- Adjusted PWM of buzzer for desired frequency of noise alerts

Tau Beta Pi — San Jose, CA — Dec 2016

- Invitation only Engineering honor society
- Nationally recognized California Eta Chapter
- Top 1/8th of Junior SJSU engineers

A.S. First Generation Scholarship — San Jose, CA — Aug 2016

- Essay submission scholarship
- Awarded to students who are the first in their families to attend college

Skills

C, C++, NASM (Assembly), Javascript, LTSpice, Fritzing, Hyperload, Hercules, RealTerm, PCAN-View, TTC Downloader, Tasking VX, Logic Works
Editors: Eclipse Mars, Eclipse Kepler, Visual Studio Code
Tools: Oscilloscope, Function Generator, Digital Multimeter, Spot Welder, Soldering Iron