Thomas J. Stepp

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EDUCATION

Purdue University May 2017
Bachelor of Science in Electrical Engineering 3.42 / 4.00
Study Abroad: Universidad Carlos III de Madrid Spring 2016

Courses:

Software Engineering Tools	Algorithms & Data Structures	
Advanced C Programming	Microprocessor Systems	
Object-Oriented Programming	Feedback System Design	

Skills:

C / C++	Matlab
Java	Python
Bash	Tcl

PROFESSIONAL EXPERIENCE

Network Engineering Intern @ Facebook Summer 2016
- Created scripts for automation of network switch testing with Tcl and Ixia hardware API
- Developed driver for IC chip with C++ to improve Wedge100 switch function and reliability
- Assisted with switch setup and procedure standards to maximize the team's productivity

Systems Engineering Intern @ GE Aviation Summer 2015
- Produced Matlab software tools to automate test validation for LEAP and Passport 20 engines
- Supported certification for pressure cycling tests and fire tests to meet FAA regulations
- Strengthened user interface for the GE Intern Onboarding app on Android OS

Data Analyst Consultant @ McDonald's Summer 2014
- Collaborated with team for testing and issue resolution of the e-Procurement website
- Created a process to standardize the financial coding of 20,000 products sold on the website
- Developed reporting to show purchasing trend differences between the new and old systems

DESIGN PROJECTS

Pebble Watch Faces Summer 2016
- Developed Facebook themed pebble watch face to display company values for employees
- Displayed battery percentage and outside temperature below the time display

The Useless Box Fall 2015
- Created embedded C algorithm to close box and perform tasks with a combination of switches
- Designed PCB and interfaced motors, servos, and switches with the microprocessor

Floyd-Steinberg Dithering Fall 2015
- Programmed image conversion program for converting between 16-bit and 24-bit images
- Used dithering algorithm as a means of diffusing pixel error to maintain image quality

Electromagnetic Compatibility Spring 2015
- Built and tested PWM audio amplifier for radiated and conducted emissions
- Designed amplifier to meet emissions regulations and standards

Mars Rover Project Spring & Fall 2014
- Programmed drive system and sensors with Arduino for Mars Rover Education project
- Maintained website with HTML and CSS for Aerospace Engineering Education team

LEADERSHIP EXPERIENCE

Faculty Committee Chair, ECE Student Society Fall 2016
- Connecting students and faculty to create a better learning environment for all ECE students

Publicity Committee Chair, ECE Student Society Spring & Fall 2015
- Planned events to develop strong faculty to student relations in the ECE community
- Publicized all events to meet Purdue University regulations and drive student attendance

Eagle Scout, Boy Scouts of America January 2012
- Devoted over 200 hours to a service project with Sgt. Tommy's Kids Foundation
- Executed workshop to teach essential outdoor skills including igloo camping and orienteering