John A. Myrda

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Education

University of Illinois Urbana-Champaign *December 2012*
Bachelor of Science in Engineering Physics
Minor in Computer Science

Experience

Cloudmark, *Software Development Engineer in Test* *San Francisco, CA*
Oct 2015 - July 2018

- Write automated tests in Python for a custom test framework.
- Write Python and bash scripts to improve day-to-day workflow.
- Build multi-system test environments using docker and VMs to develop and run automated tests.
- Investigate bugs using source code, REST APIs, automated tests, and Linux debugging tools.
- Write and execute test plans for a high performance email and mobile messaging platform.

Wells Fargo, *Automated Regression Analyst* *San Francisco, CA*
Feb 2015 - Oct 2015

- Built RESTful APIs for web tools with JAX-RS/Jersey, Jackson, and SQL.
- Architected web tools for the regression testing team with GWT (Google Web Toolkit).
- Analyzed failures of Selenium tests for Wells Fargo mobile websites and fixed errors in test scripts.

UIUC Engineering IT *Urbana, IL*
Linux Working Group *Feb 2014 - August 2014*

- Provided user support for Linux issues in the College of Engineering.
- Identified legacy Linux systems and migrated them to a Linux distribution maintained by Engineering IT.
- Maintained and created internal and end user documentation for Engineering IT Linux distributions.

Assistant IT Specialist *Jan 2013 - Feb 2014*

- Managed training and schedules for 12 Help Desk student staff members.
- Maintained and created internal and end user documentation relating to common technical tasks.
- Created web based tools with PHP, MySQL, and JavaScript to simplify daily Help Desk tasks.

Skills

Languages: Python, C, Java, C++, JavaScript
Other: Basic PCB design with EAGLE, Soldering, Arduino, Git/SVN

Projects

Countdown Timer
Converted an "Easy Button" into a configurable and resettable countdown timer using 7 segment displays, a TI MSP430 microcontroller, and firmware written in C.

Party Lamp
Altered a standard table lamp into a portable LED light fixture which displays different color temperatures during normal usage and mathematically generated colorful patterns for parties. This project and the following were built with Arduino, high density WS2812B LED strips, and Lithium-ion batteries.

Lightbox Sign
The lightbox can act as a whiteboard and served as the sign for a Burning Man camp. I wrote an LED pattern library to use with Arduino to control the lights. The lights display a sequence of entrancing animated patterns.

Connected Globes
6 clusters of 24 LEDs connected by long 3-wire cables and diffused with Chinese lanterns. I designed a custom PCB for the controller. I extended my pattern library with more animations that better suit the ring-like geometry of this fixture.