ANDREW HAMON

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WORK EXPERIENCE

Lab Technician and Intern, NOVA Engineering and Environmental

Panama City Beach, Florida — Summer Break 2014

- Perform laboratory tests including standard and modified proctor, lime rock bearing ratio determination, sieve analysis and 200 wash, resistivity, chloride and sulfate content, natural moisture, organic content, and concrete compressive strength determination according to ASHTO and FM standards.
- Observed and assisted in fieldwork, including asphalt coring, hand augers, and collecting soil samples for testing and classification
- Drove company truck frequently to Pensacola and Tallahassee to pick up soil or concrete samples
- Assisted with handling of calibration paperwork

Pool Monitor, Treasure Island Beach Resort and Condominium

Panama City Beach, Florida — Summer Break 2013

- Enforce pool rules
- Keep pool area clean, orderly, and safe
- Provide friendly and enthusiastic customer service to guests
- Assist maintenance staff with miscellaneous jobs

Stock Replenishment, Hollister

Panama City Beach, Florida — Summer 2012 - Spring 2013

- Audit and replenish sales floor stock
- Maintain an organized and efficient stock room
- Prep sales floor for floor-set changes
- Audit and update sales floor marketing

Dishwasher, Genghis Grill

Panama City, Florida — Summer Break 2012

- Wash dishes
- Backup grill master when needed
- Keep a clean and orderly kitchen

Bus Boy, Sherlock's Mystery Dinner Theater

Panama City Beach, Florida — Summer Break 2011

- Bus tables
- Assist customers
- Clean and put away dishes
- Back up servers when necessary

EDUCATION

University of Central Florida

B.S. Computer Engineering — 2013-present

- Sophomore
- 3.37 GPA
- 109 completed or in-progress credits

Relevant Coursework

- Math and Physics core classes
- Differential Equations
- Digital Systems
- Electrical Networks
- Engineering Analysis (C Programming)
- Physics 3 (modern physics)

SKILLS

- Proficiency in Python
- Actively learning Ruby (and on the path to proficiency)
- Functional knowledge of Java and C/C++
- Basic web development knowledge
- Very comfortable working in the terminal (Bash)
- Version Control with Git
- Knowledge of basic DC circuits and microcontroller use (i.e., Arduino and MSP430)
- Experienced in all major operating systems, though OSX and Linux are where I feel most comfortable

PERSONAL PROJECTS

- Partygoer – Steven Petryk's and my collaborative take on what a Spotify "party mode" should be. Initially started as a cool idea for a housewarming party, we have poured countless hours in to this project. Users can submit songs through a Rails web-app or by mentioning a twitter bot, and then vote on the submissions through the Rails web app. Songs are played in the order that they are ranked, and songs that receive too many down votes will be skipped. Uses Rails, Python, the Spotify and Twitter web APIs, the libspotify core, and countless other supporting libraries.
- Dynamic lighting based on real time FFT audio analysis, powered by Processing (Java) and an Arduino
- Giant working calculator costume, using capacitive sensing for the buttons and six giant seven-segment displays for the display, powered by an Arduino
- A batch image thumbnail generator for my NAS, written in Python and optimized for multiple processing cores
- Optical mouse based displacement sensor for BoeBots (in EGN 1006), which then allowed the gathering of input data for a PID feedback loop to ensure the bot did not drift off of its specified course.