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.
- Drove company truck frequently to Pensacola or Tallahassee to pick up soil or concrete samples for testing.
- 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

SUMMARY

In order to satisfy my lifetime fascination with electronics and general love of learning, I hope to graduate with a Bachelor of Science in Electrical Engineering from the University of Central Florida. After graduation, I plan to serve my country in the Navy as an officer in their nuclear engineering program.

EDUCATION

University of Central Florida

B.S. Electrical Engineering — 2013-present

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

Relevant Coursework

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

SKILLS

- Proficiency in Python
- Working knowledge of Java, C/C++, Ruby, MatLab
- Basic web development knowledge
- Bash/Unix
- Version Control with Git
- DSLR photography (in any mode)
  - Knowledge of flash photography
- Knowledge of basic DC circuits and microcontroller use (i.e., Arduino/MSP430)
- Experienced in all major operating systems (Windows, Mac OS X, Linux)

PERSONAL PROJECTS

- A playlist queuing web app my room mate and I made for a housewarming party – guests could suggest tracks from the Spotify catalogue and vote on the suggestions. Highest ranked song would play next. Developed using a combination of Ruby, JavaScript, and Python. Suggest songs at http://andrewbrandonandstevensparty.rocks
- Dynamic lighting based on real time FFT audio analysis, powered by Processing (Java) and Arduino
- Giant working calculator costume, using capacitive sensing for the buttons and six giant seven-segment displays for the display, powered by 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.