

Barry Otieno

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Education

Florida State University

Bachelor of Science in Computer Engineering

Overall GPA: 3.53/4.00

Graduating: Spring 2019

Skills/Languages

- **Programming:** C/C++, Python, Bash, VHDL, Git
- **Web Design:** HTML, CSS
- **Software/Operating systems:** Unix, MATLAB, Quartus, Adobe Suite

Work Experience

Florida State University (Tallahassee, FL)

Summer 2014 – Current

Undergraduate Research Assistant, Civil Engineering Department

- Data extractor for Florida Department of Transportation (FDOT) / University of Florida truck taxonomy project
- Worked with graduate students to collect and analyze traffic data on highways and roundabouts
- Created detailed presentations that evaluated performance of classifications on vehicles for FDOT data and analytics team
- Created survey websites that collected and sorted data from several department of transportation's in USA
- Worked with high school students who were interested in engineering on basic projects

Projects

Northrop Grumman Secure Voting Machine

Aug 2018 - Current

- Lead programmer in charge of creating GUI and server-side interaction of voting machine. (HTML, CSS, JavaScript (AngularJS, Node.js, Express.js, Electron.js), MongoDB)

Linux

Aug 2018 - Dec 2018

- Created a basic shell capable of executing commands, I/O redirection, piping, and background processing (C, Bash)
- Created an elevator kernel module which used a combination of custom system calls for operations and background threads for scheduling. (C)

MSP430 Launchpad

Jan 2018 - May 2018

- Wrote a program that simulated street lights with LEDs and light varying intensity according to time of day (C)
- Wrote a program that calculated the distance of a still object (C)

Bots

May 2018

- Wrote a bot that searched for new posts on Reddit for PlayStation and Steam game deals (Python, Reddit API)
- Wrote a bot that calculated average price for an eBay item search (Python, BeautifulSoup)

Finance

Jan 2017 - Sep 2017

- Created a website that provided beginners with tools to learn more about investing (HTML, CSS, JavaScript)
- Created financial models in Excel that calculated a stock's value and margin of safety using discounted cash flow analysis.