Barry Otieno

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Education

**Florida State University**

Bachelor of Science in Computer Engineering Graduating: Spring 2019

Overall GPA: 3.53/4.00

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, Beautiful Soup)

**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.