Nicholas Huynh

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Education

Bachelor's Computer Engineering | Dec 2019 | University of Florida | GPA: 3.24

- Related coursework: Microprocessor Applications, Operating Systems, Digital Design, Embedded Systems, Data Structures and Algorithms, Information Systems and Databases, Penetration Testing & Ethical Hacking

Skills & Abilities

- Languages: Java, C/C++, VHDL, Assembly (for AVR XMEGA), HTML, CSS, SQL, Javascript
- Tools: Intel Quartus Prime, Atmel Studio, Oscilloscope, Waveform Analyzer, Wireshark, MongoDB
- Additional Skills: Soldering, Microsoft Office, Customer Service, Maintenance & Repair

Experience

Mission Systems Eng. Intern | GE Aviation, Systems Division (Smiths Aerospace) | May 2018 – Aug 2018

- Developed Wiki pages in support of engineering process management with HTML, CSS, and MediaWiki technologies.
- Performed system level verification testing to ensure compliance to the published ICD for the Stryker DAGR RSAM. Generated test reports and identified discrepancies that resulted in PRs to drive future software improvements.
- Verified Python test scripts for new STS software development loads in support of the JSF Stryker F-35 and the Boeing P-8A.

Projects

- **LED Level:** Created a level that indicates varying degrees of tilt through LED color changes. Coded in C and accomplished using an ATxmega128A1U microcontroller and an accelerometer/gyroscope accessory board.
- **Traffic Light**: Designed traffic light with Intel Quartus Prime and VHDL. The design was implemented on Max V CPLD hardware and the I/O was controlled with National Instrument's Analog Discovery 2.
- **Free Food Web App:** Worked with a team of 6 students to develop an app that allows UF students to post free food opportunities on campus. The site was developed using MEAN stack technologies and the Agile methodology.

Involvement & Volunteering

Outreach Committee | Association of Computer Engineers | Aug 2016 – Dec 2016

- Collaborated with committee members on new outreach events.
- Connected with local organizations and companies to hold workshops for young children.

Outreach Volunteer | Association of Computer Engineers | Spring 2015 – Fall 2016

- Demonstrated various technologies and circuit fundamentals so that children could easily understand.
- Stimulated the curiosity of middle school students for computers and the STEM field.

Member | Gator Robotics | Sept 2016 – April 2017

- Worked in a team of 3 to build a small roaming robot using the Arduino Uno, ultrasonic sensors, and C++.

Involvement and Fundraising Chair | Gator Powerlifting | Jan 2017 – Dec 2017

- Trained for and competed in a USAPL collegiate powerlifting meet.
- Introduced and discussed new ideas for supporting a team atmosphere and fundraising for team events.