

# James Bocinsky

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2337 SW Archer Rd, Apt 4015, Gainesville, Florida 32608 | 321-557-3827 | jbcinsky@ufl.edu | **3.76 GPA**

**Objective:** Further my experience while interning at a competitive company interested in CE topics such as machine learning and robotics systems.

## Work Experience

**Harris Corporation** – SW Engineering Internship (May – Aug 2016)

- FAA program (NEMS) that established a means of data exchange between airplanes and towers
- Created a thread pool executor to handle a high throughput of producer/consumer messages
- Hosted an inner team knowledge base through a closed network system server using Linux, Apache, Postgres, and PHP

**Harris Corporation** – SW Engineering Internship (May – Aug 2017)

- Worked on the T7 robot developed to assist in explosive ordinance disposal (EOD) missions
- Prototyped a multicast communication protocol on a microcontroller to be used across the robotics' control systems
- Implemented and tested a smart battery status CAN messaging protocol

**Machine Learning and Sensing Lab** – Undergraduate/Graduate Research Assistant (November 2016 - present)

- Developed a MI-ACE algorithm for sub-surface landmine detection through preprocessing, feature extraction, algorithm development, and testing of EMI data

## Education

**M.S. in Computer Engineering | University of Florida | Graduate Dec 2019**

- Relevant Coursework: Research, Biometrics, Big Data

**B.S. in Computer Engineering | University of Florida | Dec 2017 | Cum Laude | 3.76 GPA**

- Senior Project 1 – Complete design and implementation of a standalone dawn simulating alarm clock
- Senior Project 2 – Complete design and implementation of an autonomous facial detection turret

**West Shore Jr/Sr High School | 4.00 (4.40 weighted) GPA | Valedictorian**

- Worked diligently and efficiently at a national blue-ribbon school, rated top 50 in the United States, and #1 in Florida (2013)

## Skills & Abilities

### TECH SKILLS

- Java, C, C++, Assembly, Matlab, Python, PCB Design, Linux, Shell scripting, Lua Scripting, and Makefiles
- Agile Development, Git, SVN, Logic & Digital Design (VHDL), Embedded Systems, and SolidWorks Certified

### MANAGEMENT AND LEADERSHIP

- Outreach Coordinator – Machine Learning and Sensing Lab (August 2017 – present)
- Website manager and player of the University of Florida men's club soccer team (August 2013 – May 2017)
- Captain of high school state champion soccer team (January 2013)

### SPECIAL INTERESTS

- Soccer, golf, football, tennis, guitar, modifying my car, motorcycles, building computers, and tinkering with electronics
- SwampHacks – 24 hour hackathon where programmers come together to create an innovative project (2016 & 2017)
- Active Club Member : IEEE, HKN, UFAI