

James Bocinsky

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Education

Master of Science in Electrical and Computer Engineering (Thesis)

May 2019

University of Florida, Gainesville, FL

GPA: 3.79/4.0 (Publications on website)

Specialty: Machine Learning, Big Data, Biometrics, Dig. Signal Proc., Image Proc. and Comp. Vision, Time Series Analysis

Bachelor of Science in Computer Engineering

Dec 2017

University of Florida, Gainesville, FL

GPA: 3.76/4.0 (Cum Laude, inducted into HKN, member of IEEE, UFAI, & ACE)

Senior Project 1: Developed and built an autonomous face detecting turret (on website)

Senior Project 2: Designed and implemented a standalone sunrise simulating light alarm clock (on website)

Work Experience

Software Engineer

June 2019 - present

American Express

- Implemented a python, flask API and ansible automation scripts to eliminate need for human monitoring

Graduate/Undergraduate Research Assistant

Nov 2016 – May 2019

Machine Learning and Sensing Lab, Gainesville, FL

- Implemented an end to end framework for algorithm training and testing for more than 6,000,000 data samples
- Created a novel multiple instance learning algorithm to learn target representatives for landmine detection (on website)

Embedded Software Engineering Internship

May – Aug 2017

Harris Corporation, Melbourne, FL

- Prototyped a multicast communication protocol on the Hercules microcontroller for use across the T7 robot's control systems
- Implemented and tested a smart battery status controller area network (CAN) messaging protocol

Software Engineering Internship

May – Aug 2016

Harris Corporation, Melbourne, FL

- Implemented a thread pool executor to handle a high throughput of producer/consumer messages for FAA data exchange
- Created a knowledge base system on a closed network server using Linux, Apache, Postgres, and PHP

Skills, Leadership, & Affiliations

Tech Skills

- Machine Learning, Python, Matlab, Java, C, C++, Assembly, Linux, Shell scripting, and Latex
- Agile Development, Git, Logic & Digital Design (VHDL), PCB Design, Embedded Systems, and SolidWorks Certified

Leadership

- Website manager, exec board member, and player of the University of Florida Men's Club Soccer Team 2013 – 2017
- Machine learning course lead instructor for 11 of 12 lectures at the University of Florida (on website) Jun – Aug 2018

Interests

- Blogging projects on personal website, building electronics and computers, modifying my car, and hackathons