James Bocinsky

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Education

Master of Science in Computer Engineering (Thesis)   May 2019

University of Florida, Gainesville, FL

GPA: 3.76/4.0

Coursework: Machine Learning, Biometrics, Big Data, 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)

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

Graduate/Undergraduate Research Assistant   Nov 2016 - present

Machine Learning and Sensing Lab, Gainesville, FL

- Implemented an end to end framework for algorithm training and testing for more than 1,000,000 data samples
- Extended a novel multiple instance learning algorithm to learn variations of target representatives for landmine detection

Embedded Software Engineering Internship   May – Aug 2017

Harris Corporation, Melbourne, FL

- Developed embedded software on the T7 robot, designed to assist in explosive ordinance disposal missions
- Prototyped a multicast communication protocol on the Hercules microcontroller for use across the 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

- Developed Java software for the FAA that established data exchange between airplanes and towers
- Implemented a thread pool executor to handle a high throughput of producer/consumer messages
- 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
- Instructor for Machine Learning course at the University of Florida (on website)   Jun – Aug 2018

Affiliations & Interests

- Affiliations: Inducted into HKN (ECE Honor's Society) and member of IEEE, UFAI, ACE
- Interests: Building electronics, modifying my car, building computers, blogging projects on personal website, hackathons