William Hampton

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Experience

Laboratory For Progress

Robotics Research Intern | June-August, 2017 | University of Michigan

Led a team developing a prototype robotic platform with an onboard mobile manipulator. Designed and implemented the wiring for the manipulator, and developed ROS controllers for the robot base and arm.

Textron Systems

Electrical Engineer Intern | June-August, 2016 | Baltimore, MD

Worked on a prototype FPGA radar signal simulator. Developed VHDL logic for communicating between the board and a SPI memory chip, a DAC interface, and a DDR3 RAM card. Tested and analyzed several prototype boards.

Textron Systems

Electrical Engineer Intern | May-August, 2015 | Fort Worth, TX

Developed Python code for an experimental tail rotor sensor. Used Python with Numpy and Pandas to analyze helicopter flight data in order to determine optimal flight patterns for fuel savings.

PDX, Inc

Software Intern | May-August, 2014 | Fort Worth, TX

Designed and wrote a Java RESTful client that connected to a MongoDB. The product was developed to track SQL statements to an enterprise database, and help identify blockages.

Education

University of Alabama Class of 2017	B.S. Computer Engineering, B.S. Computer Science	Graduated Magna Cum Laude Honors College

Skills

Languages

Python, C/C++, C#, VHDL, Java, Lisp

Electronics

Embedded Systems Design, PCB Design, Soldering

Programs

Ubuntu Server , Blender, OrCAD, DipTrace

Classes

Robotics

Artificial Intelligence, Intro to Autonomous Robotics, Embedded Systems

Computer Science

Software Reverse Engineering, Programming Languages, Intro to Operating Systems

Electrical Engineering

Digital Systems Design, Electrical Circuits, Programable Logic Controllers

Math

Theory of Probability, Linear Algebra, Discrete Math