

Brett Salyer

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Summary

I am a dedicated college student, finishing my last semester at Wright State University. I am currently studying Computer Science with a focus in Computer Engineering hardware electives centered around FPGAs. I plan on pursuing my master's degree upon graduation. I have a particular interest in Field Programmable Gate Arrays and machine learning using neural networks. In addition to my education, I also currently hold a Secret level clearance and in pursuit of a Top Secret at my current place of employment.

Education

COMPUTER SCIENCE & MATHEMATICS | CURRENT STUDENT | WRIGHT STATE UNIVERSITY

- Cumulative GPA: 3.34 (higher, when considering transferred credits from Sinclair)
- Transferred from Sinclair Community College
- Related coursework: Java Development I & II, Calculus II, Linear Algebra & Differential Equations, Network Security, Linux Operating Systems, Computer Organization, Digital System Design, HPCs & Parallel Programming, OS Internals & Design,
- National Society of Leadership and Success

Skills & Abilities

TECHNICAL

I know my way around Excel, Word, PowerPoint, etc. I am very good with any Windows Operating System available. I have also become proficient in Linux, as it is now my primary operating system (Elementary OS). I have a strong grasp on many programming and scripting languages. Of those I know, I am most familiar with Java, C++, C, and Python. I am also familiar with Assembly language programming (GAS / AT&T) and reverse engineering, with experience on 16-bit and 32-bit architectures. I am also familiar with digital circuit design, truth tables, Karnaugh-maps, etc.

Experience

INTERN | ALION | MARCH 2018 – MAY 2020

- Developed test equipment control software to execute and monitor tests for custom hardware designed in-house using a GUI developed in Python using PyQt 5
- Developed server code to handle Modbus protocol over RS232 serial using Python and a Raspberry Pi.
- Assisted Senior Engineers in Neural Network development using TensorFlow
- Developed various libraries in C++ that were ported to Python and MATLAB using SWIG
- Became familiar with and implemented code documentation using Sphinx

INTERN | AIR FORCE RESEARCH LABORATORY | SUMMER 2015

- Worked on distribution C research projects at Wright State University with the Air Force Research Laboratory (AFRL). This was known as the ATR Center Summer Internship

STUDENT AMBASSADOR | SINCLAIR COMMUNITY COLLEGE | FALL 2016 – SPRING 2018

- Help with any on-campus activities / operations
- Independently developed Excel inventory management sheets that automatically tracked inventory
- Making and answering phone calls.

RESEARCH ENGINEER I | ALTAMIRA TECHNOLOGIES | 2020 – PRESENT

- Internal research and development in computer vision and object detection algorithms
- Work on classified projects for the DOD involving one shot object detection algorithms
- Developed computer vision with Python integration in the NCTI project

Hobbies

Some of the things I like to do in my free time include Raspberry Pi projects, neural network development using TensorFlow, creating mobile applications using Flutter, and I have had a recent obsession with astronomy, specifically astrophotography.