Roberto Unzaga

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GitHub: https://github.com/robzaga

RELEVANT SKILLS

- C/C++/C#
- WPF
- Raspberry Pi
- MATLab
- Z-Wave
- Assembly Language
- Hardware Design Language (Verilog)
- YAML
- Embedded Systems
- Solid Edge
- Team Foundation Server
- Visual Studio

EDUCATION

Bachelor of Science in Computer Engineering - Utah Valley University **May 2018**

Involved with IEEE UVU Chapter as Vice President of Publications.

NSF LEAP – Full Scholarship

Relevant Coursework Completed:

- Embedded Systems 1 & 2
- Digital Design 1 & 2
- Object Oriented Programming
- Algorithms Data Structures
- Advanced High Performance Computer Architecture
- Digital Signal Processing
- VLSI Design
- Software Engineering
- Wireless and Mobile Communications
- Senior Design Project

WORK EXPERIENCE

Software Engineer **May 2018 – Present**

BAE Systems, Inc, Hill AFB, UT

- Writing Developers Guide for ICBM Simulation software developed with MATLAB scripts

Computer Science Technical Intern **Dec 2016 – April 2018**

BAE Systems, Inc, Hill AFB, UT

- Developed, as a team, the Process Model Toolkit (PMT) and programmed in C# and XAML.
- Communicate directly with government customer over New START Treaty to make improvements to PMT and present to customer and internal employees.
- Attained clearance of SECRET and is current to attend meetings in Classified Environment

FAVORITE PROJECTS

- **Virtual Machine**
  - Inputs Assembly Language as bit data into memory and executes multi-threaded functions
- **Z-Wave Home Assistant**
  - Implements Home Automation and Security on Raspberry Pi using Z-Wave Protocol
- **Traffic Light**
  - Used FPGA to emulate a traffic light with code written in Verilog
- **Motorola Microcontroller**
  - Wrote Assembly Language commands to control PWM, Fuzzy Logic, etc.