Roberto Unzaga

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GitHub: https://github.com/robzaga

RELEVANT SKILLS

C/C++/C#
WPF
Raspberry Pi
MATLab
Z-Wave Protocol
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.