Roberto Unzaga

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RELEVANT SKILLS

- C/C++/C#
- WPF
- 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

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

- Working with simulation software for ICBM and in process of writing Developer's Manual

Computer Science Technical Intern   **Dec 2016 – Present**
BAE Systems, Inc, Hill AFB, UT

- Developed, as a team, the Process Model Toolkit (PMT) and programmed in C# and WPF.
- 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 – C++**
  - Inputs Assembly Language as bit data into memory and executes multi-threaded functions
- **Senior Project - Z-Wave Home Assistant**
  - Implemented Home Automation and Security on Raspberry Pi using Z-Wave Protocol

- **Traffic Light - Verilog**
  - Used FPGA to control it like a traffic light by using LEDs and Buttons.
- **Motorola Microcontroller - Assembly**
  - Programmed Microcontrollers in Code Warrior (PWM, Fuzzy Logic, etc.)