# 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.