**ROGELIO DANIEL DELGADILLO**

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**EDUCATION**

**University of Arizona, Master of Science in Electrical & Computer Engineering**May.2019, GPA:3.72

* Bachelor of Science in Electrical & Computer Engineering Dec.2017
* Minor: Mathematics Dec.2016
* Honors College, Dean’s List, Honorable Mentions, Academic Year Academic Distinction

**Pima Community College** May.2015

* Associate in Science, Associate in Liberal Arts, and Certificate AGEC-S

**TECHNICAL SKILLS**

**Software Languages:** C++, C#, Java, C, MIPS assembly, Verilog, JavaScript, HTML, CSS, MATLAB.

**Skills:** Agile methodologies, Digital Signal Processing, FPGA’s, Programming CPU, State Machines, Lauterbach, Computer Networks, Network Security, Microcontrollers, cryptography, Full-Stack Developer, parallel programming, Serial Communications Protocols, Synergy, GitHub, LIDAR, and FunctionGenerators.

**ACADEMIC PROJECT**

**Project: Designed Visually Impaired Assistance Technology using C++** May.2017

* Designed vest system that utilized two sensors (Lidar and Ultrasonic) and dual slave, single master configuration to determine distance of objects to the user.
* Software lead, maintained class coding standards and implemented software development process.

**Project: Nanoparticle tracking software using MATLAB** May.2016

* Developed image processing software that filters images, displays nanoparticles sizes, concentration, number of particles and particle identification for medical research.

**Project: Programming CPU using Verilog** Dec.2016

* Designed a five-stages pipelined CPU with branch prediction, memory hierarchy, data path and controller. Developed a personal instruction set to optimize overall design and performance.
* Challenges: Resolving timing issues between FPGA board and Vivado software.

**Project: Implement a graphical user interface using Java** Dec.2016

* Optimized a program with computing concepts such as abstract data types, classes, inheritance, object oriented design and architectures, class hierarchies, polymorphism, and unified modeling language.

**PROFESSIONAL EXPERIENCE**

**Raytheon Missile Systems: Software Intern** May.2017-Present

* Developed windows application that commands embedded systems to perform tests, burn flash memory, and other diagnostics functionality using Lauterbach and JTag.
* Learned concepts of metaprogramming, CRC calculations, unit testing, agile methodologies, and software development process.

**U.S Marine Corps: Combat Engineer (E-5/Sergeant)** May.2012-Present

* Safety Officer: Monitor and anticipate hazards, create a friendly and safe work environment.
* Training: Officers Candidates School, Marine Combat Training, Bulk Fuel School.
* Courses: Leading Marines, Corporals Course, Terrorism Awareness, Counseling for Marines, Personal Finance, Marine Electrician, Communications Plans and Orders, Combat Life Savers Course.
* Supervised staff by delegating duties, monitoring staff performance, motivational skills, and lead team building exercises.

**University of Arizona Math Tutor** Aug.2015-Present

**Pima Community College Math and Physics Tutor** Aug.2013-May.2015

**ENGAGEMENT, CERTIFICATIONS & AWARDS**

Member of Phi That Kappa Honor Society Certification of Appreciation: Toys for Tots Volunteer

College Reading & Learning Association Level 1 Member of IEEE