

ROGELIO DANIEL DELGADILLO

520-393-9068 | RDelgadillo@email.arizona.edu

www.linkedin.com/in/RDDelgadillo | Tucson, Arizona | Secret Clearance

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 Function Generators.

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 Theta Kappa Honor Society	Certification of Appreciation: Toys for Tots Volunteer
College Reading & Learning Association Level 1	Member of IEEE