

FELIPE GONZALEZ

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U.S. Citizen

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OBJECTIVE

Self-motivated, multi-tasker, team oriented, bilingual (Spanish/English) Computer Engineering major with experience in C/C++ and exposure to ARM assembly, in addition to basic knowledge of computer networking and wireless communications with exceptional verbal and written communication skills specializing in computer systems and software.

EDUCATION

Georgia Institute of Technology (Major GPA: 3.50/Institution GPA: 3.03) BS Computer Engineering Dec. 16, 2017 (Graduation Date)
Georgia State University (transferred Overall GPA: 3.82) January 2013 – December 2013
Georgia Military College (transferred Overall GPA: 4.0) August 2010 – December 2012
Overall GPA including GT, GSU and GMC: 3.41

PROJECTS

- Learning Device for the Visually Impaired (Culminating Design II Team Project) Fall 2017**
- Prototype of a braille learning device for children who are in the early stages of learning to read
- Drink Dispenser with Conveyor Belt Spring 2017**
- Designed embedded system to dispense cup and select from 2 drink flavors using a Bluetooth application
 - Engineered housing for cup dispenser DC Servo motor using 3D printing; conveyor belt was put together using DC motors and toy tank parts
 - Programming of embedded system was done in C++; other components included – air pump motor, H-bridge, MOSFET, Bluetooth chip, Mbed microcontroller
- ST Microcontroller Fall 2016**
- Wrote, optimized, tested and debugged ARM assembly code for microcontroller applications
- Matrix/Complex Calculator Spring 2016**
- Implemented Matrix and complex calculators in C++
 - Experience using pointers for deep copying and allocating memory for a complete and accurate functionality
- Thermostat Spring 2016**
- Programmed functions in C++ for a Thermostat control system
 - Created a state machine model for the system for better control
 - Other components used were sensors, pushbuttons, LCD screen displayed the temperature
- Dueling Tanks Fall 2015**
- Wrote code for game in C/C++ for embedded Mbed microcontroller platform using various peripherals such as speaker, Micro SD card, seven segment display, mini uLCD screen, Ethernet jack, pushbuttons, accelerator, and headphone jack
- Complex Point-to-Point Movement of a 2 Wheeled Differential Drive Robot Fall 2015**
- Programming of a robot using assembly code to efficiently visit 12 random points
 - Used Python program to retrieve signal from server to efficiently keep track of the robot's path and check for errors
 - Loaded program on the robot via DE2Board with FPGA

SKILLS

Programming: C++, C, with exposure to ARM Thumb/MIPS asm, basic Python3, Matlab, VHDL, Java, HTML, CSS, Web Design, Software Defined Networking

Hardware: FPGA, Mbed platform, circuits on a protoboard

Spoken Languages: English-fluent, Spanish-native

Devices: Oscilloscope, Logic Analyzer, DE2 Board, Volt Meter Tester, MyDAQ

Software: Power Point, Excel, Visual Studio, Quartus II, GNURadio, Linux (Ubuntu), GNS3 platform to simulate networks using Switches, Routers and VLANS

EXPERIENCE

- Wood Mill Lab, LLC – Atlanta, GA (Furniture Specialist) June 2013 – Aug. 2017**
- Lead finisher responsible for painting, staining, sanding, spraying, sealing, and installing furniture
 - Assist carpenter with the assembly process and related tasks; help maintain a clean and safe workplace in accordance with state regulations
- Spurlin Industries, Inc. – Palmetto, GA (Bathtub Specialist) Mar. 2003 – July 2012**
- Attended 2-month training for use of pneumatic tools and product handling; learned all concepts pertaining to the job in less time than expected
 - Helped others with production issues and maintained the work environment
 - Assisted with training of team members to properly wear/store a 3M Respirator as required by OSHA; provided translation/interpretation for Spanish speaking employees
 - Selected to teach Spanish to the CEO for a business trip to Barcelona, Spain in 2004