George J. Suarez

lcplusmc.gs@gmail.com   https://gsuarez90.github.io/

Engineering Projects

Robot Line Following/Object Avoid Car
- Built an Arduino Uno micro-controlled car that used sonar sensors, IR sensors, and servo motors to follow a black line through a course and employ sonar signals to avoid a large object that split the course. The vehicle also returned to the start line upon successfully completing the course. The vehicle was also programmed with the Arduino IDE, using C/C++ language.

Servo Arm Controller
- Using LabView, a servo motor with arm, and an Arduino Uno, a robotic arm was built that was controlled with a potentiometer. The potentiometer was programmed with LINX functions in LabView where the controller would read voltage signals from the potentiometer and then tell the servo to position in µS based on the voltage reading from the potentiometer.

Experience

Junior Implant Technician (Internship)
Cutting Edge Ions of Anaheim, CA   June 2019 – Oct 2019
- Produced various types of implanted SiC wafers for semi-conductor industry using Varian ion implant machines in a clean room environment.
- Was offered a permanent position after completing a three-month internship.
- Assisted in development of test plans and procedures.

Propellant Technician I
ERC Inc. of Edwards AFB, CA   April 2014 – Feb 2017
- Supported development of the solid rocket propellant research program for the Air Force.
- Participated in explosives/propellant testing within government and state regulations.
- Assisted in development of test plans and procedures.

Sergeant/Field Radio Operator
USMC of Bell Gardens, CA   Feb 2010 – Feb 2018
- Set up and monitored radio frequencies to detect distress calls and responded by dispatching emergency equipment, air support, medical evacuations, quick reaction forces, and supporting guidance from proper authority.
- While overseas, was responsible for making sure communications between supporting air assets, ground forces, and vehicle patrols were squared away, typically for a small team unit.

Skills

- Currently learning HTML, CSS, and SQL. Have developed skills in Excel, Visual Studio, Visual Studio Code, Microsoft Office, C/C++, VHDL, Assembly Language, DMM's, Function Generators, Oscilloscopes, Variacs, Soldering, AC/DC theory, MultiSim / Eagle CAD, Autodesk AUTOCAD, and LabView. Also, Six Sigma, Lean fundamentals, and Statistical Quality Control with Microsoft Excel.

Education

California State University, Long Beach
Bachelor of Science, Electronics Engineering Technology   August 2018 – Dec 2020

Antelope Valley College, Lancaster, CA
Associate of Arts, Liberal Arts Math & Science   August 2014 – Dec 2017