

George J. Suarez

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Objective

Current Senior and Electronics Engineering Technology major at Cal State University, Long Beach eager to use and develop analytical, technical, and LabView/programming skills to obtain an internship or permanent position within the engineering field.

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 μ S 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, Solid State I & II, 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