George Suarez

5192 Bridgewood Dr.
La Palma, CA 90623

(657)252-8959
lcplusmc.gs@gmail.com
gsuarez.90.github.io
www.linkedin.com/in/george suarez-csulb20

EDUCATION

B.S. in Electronics Engineering Technology | California State University, Long Beach Aug. 2018 – Dec. 2020

A.A. in Liberal Arts, Math & Science | Antelope Valley College August 2014 – Dec 2017

SKILLS

Languages: LabView (most used), x86 Assembly Language, some HTML, some CSS, C++, some python, Arduino C

Libraries & Frameworks: Tektronix, Arroyo, Object Oriented Programming, State Machine, Avtech, Coherent, Keithley

Tools & Technologies: NIMax, USB, VS Code, RS232, Arroyo, Excel, Word, MultSim, Eagle CAD, AutoCAD, Fusion360, LabView 2018, Arroyo TEC/Laser drivers, Keithley Laser Drivers, Keithley DMMs

PROJECTS

LabView Developer | AdTech Photonics April 2021

Pulse LIV Station

- Over a period of 3 months, implemented OOP with LabView to complete and develop a JKI state machine program for the testing department team
- The program can automatically control an Arroyo CW laser source for continuous current tests or an Avtech pulse generator for pulsed voltage tests on various laser assemblies. It also can control either one or two TECs simultaneously. The program also performs data acquisition from a Tektronix oscilloscope to measure and record current and power in mV. Various detectors are used to record power levels (mW) from the lasers. Each test records and saves data to a .csv file automatically.
- Program is continuously being developed to fit the needs of the testing department
- Technologies used: LabView 2018, Excel, JKI State Machine, PowerMax, Arroyo, Coherent, InfraRed Associates

Student | CSULB December 2020

Senior Project Automatic Water Level Control

- In a team setting designed and built a working model of an automatic water level control system
- Played a primary role in developing the software portion that used an Arduino microcontroller and LabView 2017. An N-Channel MOSFET circuit was used to switch on and off a 12V water pump and solenoid.
- Added more software and hardware objectives as project deadline approached to make use of all the allotted time, such as an I2C serial adapter for a 16 pin LCD display. This display was used to show the user the water level in calculated liters or in (cm), which was the water surface distance away from an ultrasonic sensor.
- The LINX library custom commands were used to allow the use of the LCD with Arduino and LabView

WORK EXPERIENCE

Jr. Engineer Dec 2020 - Present

AdTech Photonics City of Industry, CA

- Sole responsibilities have been developing older and new LabView programs for the testing department
- Have enabled for new tests to be performed that use programs that were not fully developed
- Troubleshoot wiring and hardware for faulty behavior
- Fiber optic, BNC, circuit, and cable assembly for various laser tests
- Data acquisition with LabView, DMMs, oscilloscopes, power detectors, TECs, and laser sources