George Suarez

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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   Aug. 2014 – Dec. 2017

SKILLS

Languages: x86 Assembly Language, HTML, CSS, C++, Python, C, VHDL

Libraries & Frameworks: Tektronix, Arroyo, JKI State Machine, Avtech, Coherent, Keithley

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

WORK EXPERIENCE

Jr. Engineer   Dec 2020 - Present

AdTech Photonics   City of Industry, CA

- Over a period of 3 months, implemented Object Oriented Programming (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

PROJECTS

Automatic Water Level Control   Long Beach, CA

Senior Project   December 2020

- 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 embedded 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