Guillermo J. Vallejo

Reseda, CA

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portfolio

SKILLS SUMMARY

Software: Google Drive / Quartus II / LabView / Matlab
Programming Languages: C / VHDL / Python
Math: Calculus I & II / Linear Algebra / Probability and Statistics / Discrete Math
Languages: Engish / Spanish
Systems : Electronics / Embedded Systems / Digital System Design / Feedback Control System / Modeling Of Mechatronics system / Linux

EDUCATION

Bachelor of Science in Mechatronics   **May 2022**
Minor in Mathematics
California State University Channel Islands, Camarillo, CA

RELEVANT COURSEWORK

- Phy 310: Electronics
  - Use Arduino with RFID to create an actuated lock
    - Programmed an RFID with an Arduino in order to open and close a solenoid
  - Soldering a function generator and testing its functionality using bode plot through a circuit connected to an Arduino
- Emec 311: Digital System Design
  - Using the Cyclone II FPGA Board to practice VHDL
    - Programmed FPGA Board to learn VHDL modeling system in data flow, structural components, and sequential processes
- Emec 462: Embedded System
  - Created and programmed a sonar device that detects and reports movement to a web server.
- Semi-autonomous forklift
  - Created a robotic forklift with Mecanum wheels to provide strafing capabilities

EXPERIENCE

American Red Cross Los Angeles Region   **August 2015 - May 2016**
- Aided in various fundraisers and events American Red Cross Los Angeles Region

Memo's Carpet and Floors   **August 2018 - January 2022**
- Constantly traveling and working in different parts of LA to renovate houses and apartments