Uriel Lua Cervantes

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EDUCATION

Bachelor of Science in Electrical Engineering - Micro & Nano devices   **05/20**

Ingram School of Engineering – ABET Accredited Program

Texas State University-San Marcos, Texas

Minor in Applied Mathematics

RELEVANT COURSEWORK

Building a Smart Grid , Waves & Heat , VHDL, Linear Control Systems, Data Analysis with Python, Microprocessors , Electromagnetism, Introduction to VLSI, Mixed & Analog signal design.

TECHNICAL SKILLS

Programing languages: Python, C++, Verilog HDL, Django   Spanish - Fluent

EXPERIENCE

Hardware test engineer   **10/20 - Present**

EASI LCC (Contractor Cisco Systems), Austin, TX

- Wrote a CLI program in python that automated test report to excel and error analysis
- Created detailed test plans/reports for router testing
- Worked with product team members to root cause issues found during testing
- Represent Electrical Design Verification Testing (EDVT) group in cross-functional group with detailed status.
- Configured networking (TCP/IP), configured routers and traffic generators
- Testing, troubleshooted, and documented Hardware testing

Fiber Splicer   **06/20 – 10/20**

Renewable Electric Systems Americas, Harlingen, TX

- Spliced and tested fiber optic for windmill connections. Constructed splice cases. Prepared and maintained splicing records, schematics and diagrams.
- Performed work in accordance with industry standards. Read and followed design engineers' instructions and specifications. Wrote daily test reports.

Research Assistant: Autonomous Racing Platform Development.   **01/20 - 06/20**

Texas State University, Computer Science Department, San Marcos, TX

- Assembled hardware components like DC motors, motor controllers, motor braces, power supply and all other components for an autonomous car based on F1-tenth.
- Integrated sensors like IMU, Lidar and other modules in ROS through command line and implemented them for autonomous driving.

Network Installations Intern   **05/19 - 08/19**

Apogee, Inc, Austin, TX

- Performed installation and installation commissioning, troubleshooting, and handling optical transmission systems.
- Performed Fiber Optic testing, Ethernet, & wireless acceptance

PROJECTS

IEEE Robotics Competition - Texas State University   **08/19-05/20**

Project Manager **-** Senior Design Project

- Led and motivated a team of 5 to design and develop an autonomous robot capable of picking up and sorting different kinds of trash
- Developed SOW, Project Plan, Product Specification, and Final Design Review.
- Successfully integrated microprocessors, embedded controllers, power systems, image recognition and mechanical systems, while tracked key milestones and deliverable for every project's phases.

Other Projects

- Created an automated verification system for a Verilog HDL 8 bit ripple carry adder (RCA8), and a test bench to verify the system.
- Wrote a guidebook for Numpy, Pandas, and Matplotlib basics and data analysis tools.
- 2nd Place Winner - NSA Cybersecurity CTF Competition 11/19