

Luis A. Canales Jr.

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Career Synopsis

Recent Electrical Engineering graduate with a solid understanding of Computer Science principles looking to join a team of industry experts to become a better engineer.

Technical Expertise & Education

B.S. Electrical Engineering – minor in Computer Science, University of Texas at San Antonio, May 2016
(Dean's List, 2014)

Relevant Coursework: Analysis/Design Control Systems, Microcomputer Systems I & II, Random signals and noise, Electro mechanics, Electronic circuits I & II, Signals & Systems I & II, EE laboratory I & II, Application programming, Reverse engineering, Cellular & Mobile tech.

Software/Programming: Linux, MATLAB, PSPICE circuit design, C/C++, Assembly, LabView System Design Software; quickly able to learn new programming languages and software suites.

Technical Projects

- Solar Powered Robot: Learned robotic operating system (**ROS**), to interface with the robot; researched various batteries and solar panels in order to build a bill of materials (**BOM**).
- Microcomputer LED fader: Programmed a PIC microcomputer to output a pulse-width modulation (PWM signal; led to effectively reading and interpreting datasheets, as well as writing Assembly code to accomplish tasks.
- Laser Transmitter/Receiver: Designed an amplifier using raw components to output a signal carried by a laser to be received and played through speakers. Led to better understanding raw component parasitics and circuit design.
- Speech Recognition with MATLAB: Using signal analysis methods, cross-referenced an input signal to the library. Project aided in better understanding signal analysis through Fourier transforms and utilizing MATLAB to apply the theory to accomplish this task.

Experience Summary (soft skills)

Learned the discipline of effective time management by balancing school and work responsibilities since 2008. Gained leadership skills in positions of increasing responsibility; managed team members' schedules. Composed and collected while working under pressure or in fast paced environment; good communicator with colleagues and customers.

Dillard's, Timepiece Specialist

2012 - 2013

Provided quality customer service and aided in training.

The Sunglass Shop, Manager

2011 - 2012

Managed 5 co-workers' schedules; strong sales performance; promoted team work

TAMU IT Department, Technician I

2010 - 2011

Provide maintenance to on campus computers and assisted professors with classroom equipment
Re-imaging on campus computers

Target, Electronics Department Assistant

2008 - 2010

Provided quality customer service by being knowledgeable of the products, as well as working as a team member

Background Information:

Engineering Society of Hispanic Engineers (SHPE), Bilingual (Spanish), Over 100 hours of Community service at Laredo Regional Food Bank.

References available upon request.