Daniel C. Lopez

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Seeking an Electrical Engineering Entry Level Full-Time position

Education

University of Houston, Houston, TX **Expected Graduation May 2017**
Pursuing **Bachelor Degree of Science, Electrical Engineering**
Concentration: **Computer/Embedded Systems**
Major GPA: 3.63

Work Experience

University of Houston - Laboratory Teaching Assistant **September 2016 - Present**

- Assisting students understand component uses and proper functional positioning
- Facilitating students in operating unfamiliar lab equipment
- Aiding students with debugging their circuit and explaining the error to avoid mistakes in future assignments

Jacobs Group Contactor at NASA MSFC – Engineering Technician **May 2016 - August 2016**

- Assisted engineers with validating software controlled power units for flight hardware
- Proposed and developed a LabVIEW program which would significantly improve time efficiency for future tests
- Arranged meetings with a variety of engineers and an NI representative to support the development of my project

YMCA – Camp Councilor Leader **May 2010 - July 2010**

- Supervised a group of 8 children between the ages of eight and eleven
- Created lesson plans to ensure a developing and entertaining environment by listening to the children's interests
- Communicated with parents to discuss weekly evaluation reports to discuss the progress their child has made

Team Design Projects

Microcontroller Pulse Width Modulation by Analog Voltage **January 2016 – May 2016**

- Realized a custom musical scale by manipulating a frequency output from an HCS12 Microcontroller
- Created an assembly program to convert analog voltage controlled by a potentiometer into a 10-bit digital value
- Implemented a timer output compare interrupt routine to adjust the frequency according to the converted input

Magnetic Sensor SRAM Interface **August 2015 – December 2015**

- Constructed a completely original design for a Transistor-Transistor Logic (TTL) circuit emulating memory
- Completed simulation testing for our preliminary designs by using OrCAD Pspice to address design constraints
- Regulated magnetic input sensors by using an Arduino Uno microcontroller to coordinate 32 bits of I/O data

Skill Set

Training:	LabVIEW CORE 1-3, Electrostatic Discharge Control, IT Security, and Workplace safety
Laboratory:	Soldering, Oscilloscope, Function Generator, Logic Analyzers, NI PXIe chassis
Software:	OrCAD, LabVIEW, MATLAB, Mathematica, Quartus Prime, ModelSim, MS Office
Programming:	C++, C, Java, Python, Assembly, Verilog HDL
Coding:	Unified Modeling Language (UML), Version Control, Debugging, Testing
Language:	English, Spanish

Extra-Curricular Activities

Tau Beta Pi TX Epsilon Chapter (Engineering Honor Society) - Webmaster
Institute of Electrical and Electronics Engineers (IEEE) – Robotics
Society of Hispanic Engineering Professionals (SHPE) - Mentor
Makers Space Club with ECE Department – Project Planner
ECE Study Group – Largest at the University of Houston
Medal Winning Artist – Drawing/Photography