Ella Q. Rodriguez

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Objective: To obtain a spring internship at Supersonic Systems, specializing in electronic circuit design.

Education

University of California, San Diego
B.S. in **Electrical Engineering**, expected June 2020
Emphasis: Communications Theory & Systems and Electronic Circuits & Systems.
GPA 3.37, Provost Honors (3 quarters)

Technical Skills

Computer Skills: C/C++, Java, Assembly Language, VHDL, Verilog
Platforms: Windows XP, Mac OS, Unix/Linux
Software Packages: Matlab, Orcad Capture/PSpice, Cadence, Xilinx ISE, Altera Quartus II, ModelSim
Hardware: Altera FPGA

Relevant Upper-Division Coursework

- Communications Systems Sequence
- Probability and Random Processes
- Basic Digital Signal Processing
- Linear Systems Fundamentals
- Introduction to Linear & Nonlinear Optimization
- Advanced Digital Design Project
- Analog Integrated Circuit Design
- Electronic Circuits and Systems
- Introduction to Active Circuit Design Digital Circuits

Experience

Systems Intern, Scorpion Defense Systems **1/09-Present**

- Collaborate with team of five engineers to research inter-nodal connectivity capabilities for USMC Command and Control
- Design and implement conceptual architecture for inter-nodal communications using cellular networks

Intern, Teams in Engineering Service Project, UC San Diego **6/08-8/08**

- Integrated computer vision technologies with wearable wireless grocery shopping aids for vision-impaired shoppers
- Collaborated with computer vision graduate students to maintain and expand MySQL database
- Developed Python script to parse XML files
- Queried Python objects into MySQL database using SQLAlchemy

Design Manager, Course Project - Mobile 802.11 Robot **3/08-6/08**

- **Earned class distinction for finished product: "Best Project Award"**
- Collaborated with team of three to develop mobile robot controlled through IEEE wireless 802.11 protocol
- Constructed and implemented speed control and improved packaging of unit
- Integrated webcam to provide visual feedback at remote terminal
- Improved web interface used for direct interaction between operator and unit

Leadership and Campus Involvement

President, Society of Hispanic Professional Engineers (SHPE) **3/09-Present**
Active Member, Society of Women Engineers (SWE) **9/07-Present**