

KATHERINE PEREZ

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EDUCATION

University of Houston · Cullen College of Engineering

Houston, TX · May 2017

Pursuing B.S. in Electrical Engineering · Cumulative GPA: 3.304 · Major GPA: 3.500
Concentration: Computers and Embedded Systems

WORK EXPERIENCE

UH Electrical and Computer Engineering Department · Senior Design Lab Teaching Assistant

Houston, TX · August 2016 – Present

Omron Robotics Laboratory and Senior Capstone Laboratory

- Create demonstrations for a programmable logic controller
- Assist professors with the integration of PLCs and ladder logic in the curriculum

Intel Corporation · Solid-State Drive Validation Intern

Folsom, CA · June – August 2015

Non-Volatile Memory Solutions Group · Product Validation Leads

· May – August 2016

- Owner of automated SSD validation test suite – PCIe protocol/host level
 - Increased testing time efficiency by 100%

Fry's Electronics · Service Technician, Customer Service Associate

Houston, TX · July – November 2014

- Troubleshoot hardware, software and networking issues on personal computers and electronic devices
- Assembled custom desktop computers

UH Electrical and Computer Engineering Department · Research Assistant

Houston, TX · Dec. 2013 – May 2014

Electrochemical Nanofabrication and Nanomaterial Synthesis Group

- Assisted in researching “*Deposition of Magnetic Thin Films (Cobalt/Iron/Nickel); Alloy Stress Control on Electrodeposited CoFe Films*”
- Managed and recorded data driven results using DAQ in a laboratory environment

TECHNICAL SKILLS

Programming Languages: C, C++, Python, Java, Verilog, SQL, Web (HTML, CSS, JavaScript/jQuery)

Design: OrCad PSpice, LabView, Autodesk Inventor, Adobe Photoshop, Sony Vegas

Laboratory Equipment: Oscilloscope, Digital Multimeter, Function Generator, Soldering Iron

Operating Systems: Linux (Ubuntu, BackTrack); Windows (98, 2000, XP, Vista, Windows 7, Windows 8); UNIX

Software: MS Office (Word, Excel, Outlook, Power Point); LibreOffice (Write, Calc, Draw, Impress)

Hardware: Raspberry Pi, Programmable Logic Controllers, Computer Components

PROJECTS

- **Discrete Static Random Access Memory - Electronics Design Team Project**
 - Designed a circuit using transistor-transistor logic to represent an SRAM cell
 - Modeled circuit on PSpice and built circuit on printed circuit board
 - Worked with a group of four to implement discrete memory bits to display information on an interactive display of LEDs
- **3pi Maze Solving Robot** – University of Houston *IEEE Robotics Competition*
 - Programmed Pololu's 3pi Robot with C to solve a maze autonomously in the least amount of time
 - Winner of the annual UH IEEE Robotics Student Competition
- **Bluetooth Device Presence Detection** – University of Houston *CodeRed Hackathon*
 - Used a Bluetooth sensor to acquire data from Bluetooth signals sent by mobile phones
 - Used IBM's Presence Insights technology to translate Bluetooth signals to a specific location on a map
 - Winner of BlueChasm Company Challenge

MEMBERSHIPS

Tau Beta Pi (Engineering Honor Society)

Spring 2016 – Present

Institute of Electrical and Electronics Engineers – *Executive Board Officer: Resource Chair*
Robotics Officer: Webmaster

Fall 2014 – Present

American Institute of Chemical Engineers - *Officer: Webmaster*

Fall 2013 – Fall 2014