

Shuang Feng

1350 Midvale Ave, L.A. CA 90024 | (518) 248-5448 | sharonfengs@gmail.com

OBJECTIVE

Obtain a job opportunity in the field of Electrical Engineering with emphasis on embedded control or robotics.

EDUCATION

University of California, Los Angeles (UCLA) , L.A., CA	Sep. 2016 to Jun. 2018
M.S., Electrical Engineering	GPA: 3.88/4.0
Rensselaer Polytechnic Institute (RPI) , Troy, NY	Aug. 2012 to May 2016
B.S., Electrical Engineering, Mechanical Engineering	GPA: 3.82/4.0

RELEATED EXPERIENCE

Graduate Research	Jan. 2017 to Now
Laboratory for Embedded Machines and Ubiquitous Robots (LEMUR)	UCLA, L.A., CA
<ul style="list-style-type: none">Design, build a small controllable single-motor flying robot base on a open source quadcopter, Crazyflie.Test robot performance through CAD and Simulink simulations and physical tests.	
Distributed Embedded Systems Class Project at UCLA	Jan. 2017 to Apr. 2017
<ul style="list-style-type: none">Designed and built an Ultra Low Power ECG Analyzer.Used nRF 52832 SoC to sample and filter simulated ECG signal, calculate heart rate and heart rate variability.Applied machine learning algorithms to detect stress level from calculated heart rate.	
Robotics Class Project at UCLA	Sep. 2016 to Dec. 2016
<ul style="list-style-type: none">Designed and built a robot car following mobile device by tracking acoustic signals and using Bluetooth communications.Implemented trajectory analysis and obstacle avoidance features using infrared sensors.	
Undergraduate Capstone Project at RPI	Jan. 2016 to May 2016
<ul style="list-style-type: none">Designed an analog noise filter for wearable heart rate monitor.	
Undergraduate Research	Aug. 2015 to Dec. 2015
Rensselaer Polytechnic Institute	Troy, NY
<ul style="list-style-type: none">Designed a path planning algorithm using artificial potential fields and implemented the algorithm on Khepera IV robots.	
Internship	Jul. 2015 to Aug. 2015
Hytera Communications	Nanjing, China
<ul style="list-style-type: none">Participated in circuit design projects, used TI WEBENCH, Cadence OrCAD to design and simulate circuits.	
Robotics I Class Project at RPI	Aug. 2015 to Dec. 2015
<ul style="list-style-type: none">Controlled Phantom Omni robot arm drawing geometry shapes in 3D work space.	
Advanced Electronic Circuits Design Class Project at RPI	Jan. 2015 to May 2015
<ul style="list-style-type: none">Designed a Track-And-Hold Amplifier.	
Introduction to Engineering Design Class Project at RPI	Jan. 2014 to May 2014
<ul style="list-style-type: none">Designed the electrical subsystem for an attachable stretcher lift.	

RELEVANT COURSES

UCLA: Graphs and Network Flows, Large-Scale Data Mining, Algorithms, Analog Integrated Circuit Design.

RPI: Embedded Control, Control Systems Engineering, Thermal and Fluids.

SKILLS

Hardwares: Oscilloscope, Multimeter, Function Generator, Soldering iron

Softwares: Pspice, Autodesk, Siemens NX (UG), Simulink, Matlab, Microsoft Office

Programming languages: Python, C++, C, R

Languages: English, Chinese

HONORS AND ACTIVITIES

RPI Dean's List, eight consecutive semesters

Aug 2012 to May 2016

TBP, HKN, IEEE, RPI Women Mentors Program, Chinese Students and Scholars Association