

Tin Thurein

CONTACT	Website: tthurein.github.io Email: tthurein@ucsc.edu Phone: (415)-699-1146	
EDUCATION	<i>Bachelor of Science, Electrical Engineering</i> University of California, Santa Cruz Concentration: Electronics/ Optoelectronics 3.50 Major GPA Graduated with Honors in Major	September 2015-June 2017
	<i>Associate of Science, Engineering</i> City College of San Francisco, San Francisco	August 2012-May 2015
COMPUTER SKILLS	<i>Languages & Software:</i> C, C++, Python, Verilog, MATLAB, Eagle, PSpice, National Instrument Circuit Suite <i>Computer Engineering:</i> MIPS Assembly, Logic Design, Communication, FPGA <i>Operating Systems:</i> Windows, Mac OSX, Linux <i>IDE:</i> Arduino, PSoC IDE, Particle Atom	
EXPERIENCE	<i>Farmers Sales Producer</i> Sandra Htwe Agency, San Jose, CA	July 2015-November 2016
	<ul style="list-style-type: none">• Performed administrative tasks, such as handling policy renewals and maintaining records.• Evaluated individual customers needs and proposed plans to meet their criteria.• Provided customer services, such as claims, quoting rates and follow-ups.	
	<i>Front Desk Receptionist</i> City College of San Francisco, Extended Opportunity and Services	March 2014-July 2015
	<ul style="list-style-type: none">• Performed database management, data entry and word processing.• Maintained office schedule for counselors.• Learned to operate new office technology.	
	<i>Math & English Tutor</i>	June 2012-June 2013
	<ul style="list-style-type: none">• Held tutoring session for 12th, 11th, 6th and 5th graders.• Assisted with homework problems, and reviewed class materials.• Monitored student performance through weekly short quizzes.	
Projects	<i>Senior Capstone Project</i>	January 2017-June 2017
	<ul style="list-style-type: none">• I teamed up with 3 other students to design an IoT Supervisory Control and Data Acquisition (SCADA) system for local Water reservoir, which is currently installed and beta tested at Ridge Mutual Water site.• Our current implementation provides Real-Time monitoring of water meters, tank levels, pump status reading, along with energy readings via web interface.	

It also provides a secure and remote control to an authorized user, via web interface.

- Future development includes implementing machine learning algorithm for better energy conservation, anomaly detection, big data analysis, and adding additional sensors such as chlorine/ chloramine sensor.

Adjustable power supply

January 2015-May 2015

- I collaborated with 2 peers to design a variable power supply, which has an output voltage ranging from 0 to 20 Volts, and current is adjustable up to 1 Amp.
- I helped designing, simulating and prototyping the power supply circuit.

AM/FM receiver

January 2015-May 2015

- I assisted with the design of FM receiver, where I helped developing multiple stages of FM receiver such as preselector, 2 stage mixer (for converting from RF to IF(10.7MHz), then IF to much narrower 455KHz), and demodulator stage using PLL.
- I also designed AM receiver circuit consisting of an envelope detector with a low pass filter and helped with prototyping.

Audio Amplifier

August 2014-December 2014

- I teamed with 2 peers on designing and prototyping an audio amplifier, which has a low SNR, with adjustable volume and gain.
- Prior to prototyping, I simulated in Multisim to check DC voltages, and currents, ensuring our design works properly. I also performed a frequency sweep in Multisim, to get an approximate voltage gain.
- I also helped with routing PCB layout and prototyping.

EXTRA-CURRICULAR ACTIVITIES

-I volunteered at Burmese community events, such as yearly fundraising events for Mary Chapman school for the deaf, and events for Burmese Community and Cultural Center.

-I was also an active Burmese Student Club member at CCSF.

-I also tutored at afterschool program for elementary students.

LINKS

LinkedIn: <http://linkedin.com/in/tinhurein>

GitHub: <https://github.com/tthurein>

Personal website: <https://tthurein.github.io>