

# Tin Thurein

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

- Our current implementation provides Real-Time monitoring of water meters, tank levels, pump status reading, along with energy readings via the web interface. It also provides a secure and remote control to an authorized user, via the 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 to design, simulate and prototype 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 the afterschool program for elementary students.

#### **LINKS**

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

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

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