Tin Thurein

CONTACT

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EDUCATION

Bachelor of Science, **Electrical Engineering**   **September 2015-June 2017**
University of California, Santa Cruz
Concentration: Electronics/ Optoelectronics
3.50 Major GPA
Graduated with Honors in Major

Associate of Science, **Engineering**   **August 2012-May 2015**
City College of San Francisco, San Francisco

COMPUTER SKILLS

Languages & Software: C, C++, Python, Verilog, MATLAB, Eagle, PSpice, National Instrument Ciruit Suite
Computer Engineering: MIPS Assembly, Logic Design, Communication, FPGA
Operating Systems: Windows, Mac OSX, Linux
IDE: Arduino, PSoC IDE, Particle Atom

EXPERIENCE

Farmers Sales Producer   **July 2015-November 2016**
Sandra Htwe Agency, San Jose, CA
- Performed administrative tasks, such as handling policy renewals and maintained records.
- Evaluated individual customers needs and proposed plans to meet their criteria.
- Provided customer services, such as claims, quoting rates and follow-ups.

Front Desk Receptionist   **March 2014-July 2015**
City College of San Francisco, Extended Opportunity and Serivices
- Performed database management, data entry and word processing.
- Maintained office schedule for counselors.
- Learned to operate new office technology.

Math & English Tutor   **June 2012-June 2013**
- Held tutoring sessesion for 12th, 11th, 6th and 5th graders.
- Assited with homework problems, and reviewed class materials.
- Monitored student performance through weekly short quiezes.

Projects

Senior Capstone Project   **January 2017-June 2017**

- 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 betatested 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 rangeing 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 assited 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 elementrary students.

LINKS

LinkedIn: http://linkedin.com/in/tinthurein
GitHub: https://github.com/tthurein
Personal website: https://tthurein.github.io