Nathan C. Y. Lam

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Objective	To gain more real world experience in the fields of Computer Engineering/Science.

Education

Bachelor's of Science in Computer Engineering
University of Hawaii at Manoa, May 2018 Projected Graduation   GPA: 3.87

Work Experience

Engineering Intern, Spectrum Photonics Inc.   May 2016 - Aug 2016
- Built data-logger web-server from scratch using the Django web framework to log data via UART on a Raspberry Pi into .csv files using Python scripts.
- Improved data collection efficiency and enabled instant data conversion.
- Designed and customized web interface using HTML5/CSS to create, edit, remove, or view logging data.

Project Experience

REIS Sensing and Monitoring, Software Team   Aug 2016 - Present
- Design and implement firmware for highly distributed weather sensor network to analyze solar irradiance, pressure, humidity, and temperature patterns.
- Maintain/update data collection and storage infrastructure.

Android App, Software Lead   Aug 2016 - Dec 2016
- Built application using OCR technology to convert scanned text captured by a digital camera into a digital format.

Smart Campus Energy Lab, Weatherbox Team   Spring 2016
- Designed and programmed a low-cost, accurate, and reliable prototype weatherbox using environmental sensor modules to forecast weather patterns.

Liquid-Metal Electronics, Software Lead   Spring 2016
- Implemented continuous electrowetting automation and precise positional control for reconfigurable electronic devices using Galinstan.
- Eliminated manual actuation requirement and improved RF device prototyping.

Computer Skills

Languages: C, C++, Java, Python, HTML5, CSS, JavaScript
Toolsets/OS/Frameworks: Vim, gcc, g++, Git, Cygwin, Django, Meteor

Leadership Experience

Member, IEEE-Eta Kappa Nu Honor Society, UH Manoa   Aug 2016 - Present
Member, Golden Key International Honor Society, UH Manoa   Oct 2015 - Present
Member, IEEE Student Branch, UH Manoa   Aug 2015 - Present
Member, Honors Program, UH Manoa   Aug 2014 - Present

Volunteer

Swim Coordinator, American Red Cross Summer Buddies   Jun 2008 - Aug 2014
- Taught kids (ages 3-11) how to swim, educated about ocean safety, First Aid/CPR Certification, and various community service projects.

Honolulu Kiwanis Foundation   Aug 2010 - Jun 2014
- Assisted at American Cancer Society Relay for Life, fundraisers, marathons and other organization events.

Honors

Manoa Chancellor's Scholarship   2014 - Present
1st Place Division B Oahu Mathematics League Champions   2011-2013