

REBECCA RASHKIN, E.I.

Computer Engineering Ph.D. Student

Santa Cruz, CA
rebeccarashkin@gmail.com

INDUSTRY

Engineering Intern - *Scotts Valley, CA*

Lumenetix

JUNE 2017 - PRESENT

- Develop software for testing and configuration of LED lights
- Interface with IO controllers using TCP protocol and USB library
- Characterize and test lights for luminous flux, correlated color temperature, power consumption, and color rendering index
- Produce color models for LED lights to generate accurate correlated color temperatures on Planckian locus

Electrical Engineer I - *Jacksonville, FL*

Logistic Services International (LSI)

JANUARY 2012 - JUNE 2014

- Designed electrical system upgrades for aircraft simulators
- Troubleshoot video, power, I/O, and networking issues
- Engaged customers during corporate events and field installations
- Designed and presented AutoCAD workshop to engineering team

PROJECTS

Environmental Control System Parts Task Trainer (AH-64) - *LSI*

Lead Hardware Engineer

AUGUST 2013 - JUNE 2014

- Designed electrical system upgrade, specified new components
- Prepared and presented electrical design to US Army representative
- Managed drawing package and technical documentation

Black Hawk Maintenance Trainer (UH-60M) - *LSI*

MARCH 2013 - JUNE 2014

- Designed 60 Hz and 400 Hz power distribution for full aircraft sized maintenance training platform
- Specified electrical components e.g. cannon plugs, wire sizes
- Assigned, reviewed, QA'd electrical drawings

ACADEMIA

Ph.D. Student Researcher and Teaching Assistant - *Santa Cruz, CA*

School of Engineering, University of California, Santa Cruz

SEPTEMBER 2014 - PRESENT

- Designed multi-threaded mobile application using native **Android** API
- Interfaced with wearable **Bluetooth** low energy heart rate monitor
- Designing user study to test how HRV is affected by audio
- Effectively addressed student challenges concerning computer architecture, **Verilog** programming, and schematic **FPGA** design

COMMUNITY

Net Control Operator - *Santa Cruz, CA*

University of California, Santa Cruz Amateur Radio Club

OCTOBER 2017 - PRESENT

- Managed message transmission flow between amateur radio operators to practice efficient on-air communication methods

Robots and Rainbows - *Pleasant Hill, CA*

Expanding Your Horizons Young Women's STEM Conference

MAY 2015

- Designed and facilitated collaborative RGB LED electronic art project with middle school girls

LANGUAGES

Python, Android, Java, C, Processing, MATLAB, Fortran, HTML, CSS, Verilog, Assembly

SKILLS

UNIX command line interface, PCB design, hardware prototyping, drafting, graphic design, document management, version control

CERTIFICATIONS

Engineering Intern
Florida Board of Professional Engineers
License #1100018152
JANUARY 2014

Amateur Radio Technician
National Association for Amateur Radio

Call sign KM6NCI
OCTOBER 2017

EDUCATION

Doctor of Philosophy -
Computer Engineering
University of California, Santa Cruz
DECEMBER 2019

Bachelor of Science -
Electrical Engineering
University of Central Florida - Orlando, FL
DECEMBER 2011

HONORS & AWARDS

- Regents' Fellowship
- Progress Energy Leadership Institute
- Burnett Honors College
- Dean's List
- Walt Disney World Ride and Show Scholarship

PERSONAL ATTRIBUTES

- Creative thinker
- Collaborative worker
- Independent learner
- Adaptable
- Positive attitude
- Detail oriented