

Nicholas Chung

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EDUCATION

Bachelor of Science in Electrical Engineering Jun. 2017

- GPA: 3.47

Coursework to be completed as of Dec. 2016

- EE: Semiconductor Device Design, Systems Design Capstone, Speech & Image Processing
- General Engineering: Ethics in Engineering and Society

Coursework completed as of Oct. 2016

- CS: Computer Science I/II, Discrete Structures, Introduction to Algorithms
- EE: Digital Signal Processing, Intro to Digital Systems, Mathematics of Design, Control Feedback Theory, Communication Systems, Graph Theory Applications, Analog Circuits, Photonic Principles

EXPERIENCE

Student Intern **EPSS Lab at UCLA** Jun. 2016 - Present

- Developed schematics, pcb layouts, and cable drawings for various component libraries following IPC standards using Altium
- Performed various clerical tasks, such as verifying the operating temperature range for a BOM and sending purchase orders

Team Member **Project Premonition** Nov. 2015 - Present

Microsoft research aimed at detecting pathogens prior to outbreaks using drones and mosquito traps.

- Translated existing MATLAB code to Simulink block diagram for easier controller simulation
- Replace the PID control for position in a Pixhawk with a Kalman filter

Traction Power Intern **Metrolink** Summer 2015

- Analyzed as-built drawings and railroad circuit schematics to compile data spreadsheets
- Traced ETS circuit relays to add data to the button-breaker matrix

PROJECTS

NATCAR **IEEE** Sept. 2014 - Mar. 2015

- Built components of the line-following car, including H-bridges, AFE sensors, wave rectifier
- Designed and printed a PCB using EAGLE Schematics
- Programmed a microcontroller to process input sensory data from a line sensor

Audio-Interface Clock **Intro to EE** Jan. 2014 - Mar. 2014

- Programmed using LabVIEW a finite-state machine for processing audio input
- Implemented a circuit to detect audio cues, allowing interaction with the alarm clock

LEADERSHIP

VP of Operations **IEEE-HKN: Honors Society** Sept. 2015 - Jun. 2016

- Coordinated informational panels, department townhalls, professional development workshops, and technical workshops with the department faculty and chair
- Support officers with regular checkup meetings and clarification of responsibilities

SKILLS

- CS: Java, C, C++, HTML/CSS, Python, Javascript, Git
- EE: Altium, LTSpice, Logisim, MATLAB, Simulink, LabVIEW, LaTeX, Soldering