

# Nicholas Chung

nickchung114@g.ucla.edu · (909) 979-7140 · www.linkedin.com/in/nc114 · US Citizen

## EDUCATION

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**Bachelor of Science in Electrical Engineering** Jun. 2017

- GPA: 3.56

**Courses to be completed as of** Jun. 2016

- CS: Artificial Intelligence
- EE: Analog Circuits, Photonic Principles

**Courses completed as of** Mar. 2016

- CS: Computer Science I/II, Discrete Structures, Introduction to Algorithms
- EE: Circuit Theory I/II, Systems and Signals, Digital Signal Processing, Mathematics of Design, Control Feedback Theory, Communication Systems, Applications of Graph Theory

## EXPERIENCE

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**Student Research** **Project Premonition** **Nov. 2015 - Present**

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

- Design test autonomous trajectory, attitude, and motor controllers for quadcopters
- Simulate using MATLAB, Simulink, ROS libraries, Gazebo, and QGroundControl

**Student Research** **TANMS** **Jan. 2016 - Mar. 2016**

- Learn the fundamental of nanoscale, multiferroic elements through weekly modules using software including LabVIEW and AutoCAD
- Research methods to improve energy efficiency in consumer electronics alongside professors and graduate students of multidisciplinary backgrounds

**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

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**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

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

- Work closely with the board to coordinate informational panels, department townhalls, and professional development workshops
- Support officers with brainstorming meetings and clarification of responsibilities

## SKILLS

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