

Nicholas Chung

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EDUCATION

Bachelor of Science in Electrical Engineering Jun. 2017

- GPA: 3.54

Courses to be completed as of Jun. 2016

- CS: Artificial Intelligence
- EE: Communication Systems, Applications of Graph Theory, Analog Circuits, Speech and Image Processing Systems Design

Courses completed as of Jan. 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

EXPERIENCE

Student Researcher **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 Researcher **TANMS** **Jan. 2016 - Present**

- 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

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

Vice President **IEEE-HKN: Honors Society** **Sept. 2015 - Jun. 2016**

- Work closely with faculty to coordinate informational panels, department townhalls, and professional development workshops

SKILLS

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