Nicholas Chung

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EDUCATION

Bachelor of Science in Electrical Engineering   **Jun. 2017**
- GPA: 3.50

Coursework to be completed as of   **Mar. 2017**
- EE: Systems Design Capstone, Digital Speech Processing II
- CS: Modeling and Simulation of Biological Systems

Coursework completed as of   **Dec. 2016**
- CS: Computer Science I/II, Discrete Structures, Introduction to Algorithms
- EE: Digital Signal Processing, Intro to Digital Systems, Control Feedback Theory, Graph Theory, Analog Circuits, Speech & Image Processing

PROJECTS

Project Member   **Orchestra Anywhere**   **Oct. 2016 - Present**
Final project for capstone design course using localization and gesture recognition to play music.
- Calibrating 9DoF sensors and filtering noise using a Kalman filter to classify measurements
- Using UDP sensor network to process IMU measurements and estimate user's location

Project Member   **IEEE: Advanced Projects**   **Oct. 2016 - Present**
- Implemented SPI and I^2C on two microcontrollers to learn fundamental communication concepts
- Building a mini-quadcopter that will have a PID controller and communicate with a computer

Project Member   **IEEE: NATCAR**   **Sept. 2014 - Mar. 2015**
- Built components of the line-following car, including an H-bridge, AFE sensors, and a wave rectifier
- Designed and printed a PCB using EAGLE to process input sensory data from a line sensor

EXPERIENCE

Team Member   **Project Premonition**   **Nov. 2015 - Oct. 2016**
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
- Understand the PID control for position in the Pixhawk and where to add a Kalman filter

Student Intern   **EPSS Lab at UCLA**   **Jun. 2016 - Oct. 2016**
- Developed schematics and pcb layouts for various component libraries following IPC standards
- Debugged and collected measurements while testing various circuit boards

LEADERSHIP

VP of Operations   **IEEE-HKN: Honors Society**   **Sept. 2015 - Jun. 2016**
- Supported officers with weekly meetings and clarification of responsibilities
- Coordinated Q/A panels, department townhalls, and professional-development workshops

SKILLS

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