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