

# Nicholas Chung

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## EDUCATION

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**Bachelor of Science in Electrical Engineering, UCLA**

**Jun. 2017**

- GPA: 3.50

### Relevant Coursework

- CS: Modeling and Simulation, Computer Science I/II, Discrete Structures, Algorithms
- EE: Digital Signal Processing, Control Feedback Theory, Graph Theory, Speech & Image Processing

## EXPERIENCE

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**Embedded Software Engineer**

**Northrop Grumman**

**Jul. 2017 - Present**

- Generated bi-directional traceability matrices using DOORS
- Compiled and peer-reviewed software design document
- Wrote MATLAB test scripts to automate Simulink test suites and custom report generation
- Supported the design of software development infrastructure in ClearCase
- Porting legacy code to newer GreenHills RTOS and debugging related errors

**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
- Researched potential applications of a Kalman filter to supplement the PID code in Pixhawk

## PROJECTS

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**Project Member**

**Orchestra Anywhere**

**Oct. 2016 - Mar. 2017**

*Final project for systems design capstone course using localization and gesture recognition to play music.*

- Built multi-threaded TCP/IP network using Python and C to interface Intel Edison's and MATLAB
- Refactored 500 lines of Python and C code to improve readability and documentation (using Git)
- Implemented, tested, and debugged gesture recognition based on user input through an IMU
- Supported real-time gait-tracking development combining open-source software and windowing

**Team Lead**

**IEEE: Advanced Projects**

**Oct. 2016 - Apr. 2017**

- Integrated radio, IMU, and microcontroller modules to build a mini-quadcopter
- Tested and debugged individual modules regarding SPI, I<sup>2</sup>C, and low-side switching
- Designed a 2-layer PCB using EAGLE to compactly contain surface-mount components

## LEADERSHIP

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**LA PDP Chapter Lead**

**Northrop Grumman**

**Oct. 2017 - Present**

- Coordinate Lunch & Learn sessions to disseminate technical information to newer employees
- Head two site councils and support their professional development activities

**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

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- **CS:** Python, C++, Git, LaTeX, HTML/CSS
- **EE:** MATLAB, Simulink, EAGLE Schematics, LabVIEW, Altium, Logisim