

Nicholas Chung

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

EDUCATION

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

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

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, I²C, and low-side switching
- Designed a 2-layer PCB using EAGLE to compactly contain surface-mount components

LEADERSHIP

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

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