Nicholas Chung

nickchung114@gmail.com · (909) 979-7140 · www.linkedin.com/in/nc114 · US Citizen · Secret clearance

EXPERIENCE

Sensors Engineer **Northrop Grumman** **Jul. 2018 - Present**

- Integrating cRIO and PC hardware with high-speed centrifuge to gather metrics on accelerometers
- Worked with lead software engineer to develop a LabView suite for tuning and testing gyroscopes
- Wrote 500+ lines of SQL and MATLAB to mine data from Oracle database and analyze trends on combinations of sensor parameters
- Collaborated with off-site and on-site teams to manage scheduling through GANTT charts

Embedded Software Engineer **Northrop Grumman** **Jul. 2017 - Jun. 2018**

- Wrote 1000+ lines of MATLAB to automate Simulink test suite and custom report generation, improving labor efficiency by 40%
- Worked with software lead to design project development infrastructure in ClearCase
- Re-baselined legacy code to be compatible with new GreenHills RTOS
- Generated bi-directional traceability matrices using DOORS
- Compiled and peer-reviewed software design document

LEADERSHIP

LA Pathways Chapter Lead **Northrop Grumman** **Oct. 2017 - Present**

- Coordinate technical lectures, discussion forums, cross-campus events, and all-hands meetings
- Work with company leadership to disseminate flowdown and address new hire concerns
- Head two site councils and support their professional development activities

FABLAB Committee Member **Northrop Grumman** **Feb. 2018 - Present**

- Draft and finalize proposal for site executives and legal team
- Teaching 3D printing fundamentals course and maintaining 3D printers

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

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

SKILLS

- **Software**: MATLAB, Simulink, LabView, Python, SQL, C++, Git, LaTEX, HTML/CSS, DOORS
- **Hardware**: CompactRIO, 3D printing, general lab equipment (oscilloscope, function generator, multimeter), soldering