Nicholas Chung

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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 Lunch & Learn sessions to disseminate technical information to newer employees
- 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