Nicholas Chung

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EXPERIENCE

Proposal Analyst **Northrop Grumman** **Aug. 2019 - Sept. 2020**

- Managed multiple proposal and white paper efforts in coordination with program managers
- Generated compliance matrices and supporting the proposal development process
- Developed VBA scripts to automate requirements decomposition and drafts revisions
- Contributed to strategic planning meetings and created output charts for program managers

Sensors Engineer **Northrop Grumman** **Jul. 2018 - Aug. 2019**

- Integrated 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 automatically generate a system interface diagram and custom report in Simulink
- Generated bi-directional traceability matrices using DOORS
- Compiled and peer-reviewed software design documents

EDUCATION

Masters of Computer Science, UCI **Oct. 2020 - Dec. 2021**

Bachelor of Science in Electrical Engineering, UCLA **Sept. 2013 - Jun. 2017**

- GPA: 3.482

LEADERSHIP

FABLAB Committee Member **Northrop Grumman** **Feb. 2018 - Jun. 2019**

- Drafted concept of operations for site executives and legal team
- Developing 3D printing fundamentals course and maintained 3D printers

LA Pathways Chapter Lead **Northrop Grumman** **Oct. 2017 - Dec. 2019**

- Coordinated technical lectures, discussion forums, cross-campus events, and all-hands meetings
- Worked with company leadership to disseminate flowdown and address new hire concerns

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

SKILLS

- **Software**: MATLAB/Simulink, Python, SQL, VBA, LabView, C++, Git, LaTEX, HTML/CSS, DOORS
- **Hardware**: CompactRIO, 3D printing, soldering