



ASHLEY G. NAGEL

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EDUCATION

MASTER OF SCIENCE

Electrical Engineering
Columbia University, NYC
2015

BACHELOR OF SCIENCE

cum laude
Electrical Engineering
Columbia University, NYC
2013

Minors in
Applied Mathematics
Dance

Dean's List 2009-2012
Lauren Breakiron
scholarship recipient

TBP Engineering Honors Society
Columbia School of Engineering
Teaching Assistant Award - 2012
Columbia Electrical Engineering
Teaching Assistant Award - 2015

SKILLS

AI safety
Software development & testing
Project tracking & management
Documentation & presentation
Wireless communication standards
GPS & other location technologies
Aviation & space

WORK EXPERIENCE

SENIOR SOFTWARE AUTOMATION ENGINEER

Apple, Inc. Austin, TX | Mar 2020 - Nov 2022

Developed a data acquisition and testing framework to ensure radio chip compliance with communication standards such as 3G, 4G, 5G, WiFi, UWB, and Bluetooth. Developed automation solutions for hardware engineers to use across remote, distributed computer labs operated by Apple teams around the globe. Aided in development operations ("DevOps") and contributed to efforts to store and standardize all radio measurement test data across Apple.

SENIOR SOFTWARE TEST ENGINEER

Apple, Inc. Cupertino, CA | Feb 2018 - Feb 2020

Led the software quality assurance of location-based features including Proximity Pairing, Auto-Unlock, and FindMy. Coordinated cross-functional efforts across all software test and hardware test teams supporting the initial release of the Apple AirTag. Analyzed performance data to ensure product location precision and accuracy. Automated test results report generation. Developed new feature test plans and release criteria. Procured custom robotics solutions for in-house automated user testing. Oversaw user studies and field testing, which entailed training, mentoring and managing technicians & contractors.

SOFTWARE ENGINEER

Honeywell Aerospace, Olathe, KS | July 2015 - Jan 2018

Developed and tested software for GPS sensors supporting the NASA Orion spacecraft and commercial aviation products such as the Boeing 737 MAX. Led the design of the GPS data recording and loading functions while collaborating in a globally distributed team and aiding in project management. Reviewed code and requirements spanning from position calculations to satellite database management for compliance with customer and FAA requirements. Formally verified solutions using simulation-based testing and data post-processing.

PAYLOAD SYSTEMS INTERN

The Boeing Company, El Segundo, CA | Summer 2014

Assisted in the initial design and budgeting of communication satellite payloads from customer proposals complying with customer requests and government regulations.

DIGITAL SUBSYSTEMS INTERN

The Boeing Company, El Segundo, CA | Summer 2013

Developed satellite communication processor's input and output test software. Defined and reviewed requirements and documented procedures.

AVIONICS INTERN

Blue Origin, Kent, WA | Summer 2012

Developed software for a space vehicle's backup tracking system. Successfully tested system using radio-equipped weather balloons.