

# Aria Rouzmehr

RF Antenna Engineer

San Jose, CA

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## EXPERIENCE

### Comtech Xicom, Santa Clara, CA — RF Engineer

Apr 2024 - Jan 2025

- Designed and simulated a novel waveguide-microstrip transition on Alumina to iterate and improve upon the existing Ka-band power amplifier design.
- Collaborated with high-profile stakeholders and in-house production personnel to define and demonstrate success metrics of the new block upconverter unit. Presented results to upper management.
- Transitioned to testbed software development for upconverter and developed Python-based drivers for test equipment.

### Astranis Space Technologies, San Francisco, CA — Associate Antenna Engineer

Nov 2022 - Dec 2023

- Performed 3D pattern tests of satellite feedplanes in the anechoic chamber and used measured results to validate reflector-level radiation patterns.
- Planned, validated, and oversaw over-the-air signal integrity testing of satellites in Ku-, Ka-, and V-bands.
- Supported senior engineers in facilities planning for satellite passive intermodulation testing.
- Improved in-house testing infrastructure through new test antenna procurement, codebase upgrades, and anechoic chamber cleanliness. Quartered required testing time needed for flight antennas for acceptance testing.

### Santa Clara University, Santa Clara, CA — Undergraduate Researcher

Jun 2022 - Sep 2022

- Researched modulation and transmission methods to develop a transmitter similar to that used by NOAA satellites 15, 18, and 19
- Designed an example receiver for data collection from NOAA satellites and measured relevant antenna parameters
- Hosted weekly data collection sessions with peers to increase the visibility of the RF and applied EM program at Santa Clara University. Quadrupled second- and third-year enrollment in subsequent EM courses during the Winter 2023 quarter.

## EDUCATION

### Santa Clara University, Santa Clara — B.S., Electrical Engineering

Sep 2019 - Jun 2023

## SKILLS

Software: Keysight ADS, Ansys HFSS, AutoCAD, Cadence Allegro

Hardware: Spectrum Analyzers, Anechoic Chambers, VNAs

Shop Work: Carpentry Tools, 3D Printing, EV Maintenance

Data Analysis: MATLAB, C, Python, SCPI

Communication: GitHub, Cross-disciplinary discussion, Leadership

## LANGUAGES

English, Spanish (Working Proficiency), Farsi (Working Proficiency)

## RELEVANT COURSEWORK

Antenna Theory and Design

Microwave Circuit Design

Digital Signal Processing

Signal Integrity in IC/PCB Systems

ARM Embedded Systems

