

# BÌNH (BEN) TRẦN

## PhD Electrical Engineer | RF & Systems Specialist

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### PROFESSIONAL SUMMARY

PhD-level Electrical Engineer with extensive research in RF and satellite communications. Seeking project-based contracts or full-time roles to apply foundational knowledge in simulation (HFSS, ADS) and hardware testing (LabVIEW). Proven ability to combine deep technical research with operational leadership and quality assurance (SPC, Root Cause Analysis).

### CORE COMPETENCIES

Ansys HFSS   Keysight ADS   MATLAB   LabVIEW   Phased Array Antennas

Radome Design   Microwave Imaging   Material Characterization

Statistical Process Control (SPC)   Root Cause Analysis   Quality Management (QMS)

### KEY ENGINEERING PROJECTS & RESEARCH

#### Satellite Comm. Antenna Array (Design & Fab)

Tools: HFSS, Anechoic Chamber Testing

- Led end-to-end design, simulation, and fabrication of a high-efficiency dielectric resonator antenna (DRA) array.
- Achieved a 10% improvement in aperture efficiency over existing models.

#### Radome Material Characterization (Raytheon Sponsored)

Tools: MATLAB, High-Temp Testing

- Developed and validated an electrodynamic model to characterize low-loss materials at microwave frequencies and high temperatures.
- Owned the testing process and validation protocols.

#### Active Steerable Antenna Array

- Designed and optimized an active, electronically steerable antenna array.
- Developed dual RHCP/LHCP circular polarization capabilities for enhanced satellite link versatility.

### PROFESSIONAL EXPERIENCE

2024 – 2025

**Customer Service Partner Specialist****Concentrix, Ho Chi Minh City**

- Triaged and resolved complex technical customer issues in a high-volume support environment.
- Consistently exceeded all contractual KPIs for customer resolution time and satisfaction.

**Quality Control & Assurance Specialist**

2022 – 2023

**Black Diamond & Kizik, USA**

- Conducted statistical analysis (SPC) of test data to identify root causes of production failures.
- Contributed to a 20% decrease in warranty claims through rigorous failure analysis.
- Assisted in fabrication of custom test fixtures for production monitoring.

**Shift Lead / Operations Manager**

2018 – 2020

**AutoZone Inc., USA**

- Led site operations and trained a team of 6; optimized inventory management processes.
- Drove data-informed process improvements by tracking and reporting operational KPIs.

**Graduate Research Assistant (RF & Antennas)**

2010 – 2014

**Brigham Young University / Linear Signal Inc., UT**

- Spearheaded design and HFSS simulation for Satellite Comm antenna arrays.
- Managed fabrication and testing of RF devices in laboratory settings adhering to safety protocols.

**EDUCATION & AWARDS****PhD, Electrical & Computer Engineering**

Brigham Young University (2010 - 2014)

**MS, Electrical Engineering**

University of Arkansas (2008 - 2010)

**BS, Electrical Engineering & Math**

University of Arkansas (2004 - 2008)

**Key Awards**

- PhD Fellowship (BYU)
- MTT-S IEEE Scholarship
- Research Grant - Honors College
- National Recognition Awards

**SELECTED PUBLICATIONS**

- "High Efficiency Dielectric Resonator Antenna Array Feeds..." - IEEE Transactions on Antennas & Propagation, 2014.
- "Broadband, High Efficiency Dielectric Resonator Antenna..." - IEEE APS-URSI Symposium, 2013.