

Boce Lin

Ph.D in Electrical Engineering
RF/mm-Wave CMOS IC Designer



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📍 Zürich, Switzerland

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🌐 English, Chinese

Education

● **Ph.D in Electrical Engineering**
ETH Zürich, Switzerland
2025

● **Master of Science in Electrical Engineering**
Georgia Institute of Technology, USA
2022

● **Bachelor of Science in Electrical Engineering**
● **Bachelor of Science in Mathematics**
Southern Methodist University, USA
2019

Skills

Technology Node

TSMC FinFET 16nm
TSMC CMOS SOI 28nm
TSMC CMOS Bulk 65nm
GF CMOS SOI 22nm
GF CMOS SOI 45nm

Software

Cadence Virtuoso
Keysight ADS
EMX
Ansys HFSS
KiCAD
MATLAB

Summary

PhD in Electrical Engineering with extensive tape-out experience and expertise in RFIC/mm-Wave IC design, including high-frequency circuits like LNA and phased arrays. Proficient in Virtuoso and ADS, eager to contribute technical skills to cutting-edge RFIC development.

Working Experience

● **Research Assistant** *September, 2020 - September 2025*

Research Assistant in Professor Hua Wang's lab, leading multiple projects on phased array designs and CMOS circuit building blocks, advancing integrated circuits and systems for communication and sensing applications.

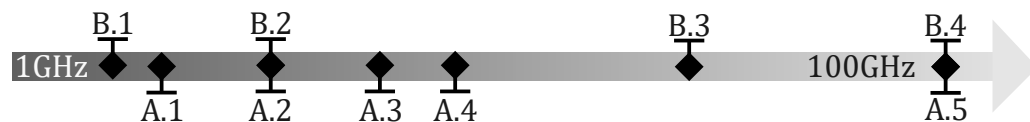
● **Internship, Yunji Technologies** *June, 2019 - August 2019*

Designed and implemented CAN communication modules, and developed embedded systems through research and programming.

● **Teaching Assistant** *September, 2017 - May 2019*

Teaching Assistant for Advanced Filter Design, Electronic Design, and Calculus courses, developing strong skills in effective scientific communication to enhance both teaching and learning experiences.

Technical Projects & Research



Phased Arrays

- A.1 Ku-Band SATCOMM Receiver Array (10.7 - 12.7 GHz)
- A.2 Ka-Band SATCOMM Receiver Array (17.7 - 20.7GHz)
- A.3 2-D Autonomous Beamformer Receiver Array (23 - 40GHz)
- A.4 Dual-Polarization Receiver (23 - 40 GHz)
- A.5 D-Band 2D Relective Relay Array (115 - 130GHz)

Circuit Building Blocks

- B.1 Cryogenic Low Noise Amplifier (4 - 8 GHz)
- B.2 Ka-Band Low Noise Amplifier (15 - 25 GHz)
- B.3 V-/E-Band Low Noise Amplifier (50 - 73 GHz)
- B.4 D-Band Power Detector (115 - 130 GHz)

Strength

- Analytical Thinking
- Problem-Solving
- Adaptability and Continuous Learning
- Communication and Team work
- Technical Expertise
- Attention to Details