Kiran Shila

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EDUCATION

UNIVERSITY OF SOUTH FLORIDA

BS Electrical Engineering
College of Engineering
May 2018 | Tampa, FL

Minor in Computer Science
College of Engineering
May 2018 | Tampa, FL

Dean's List (All Semesters)
GPA: 4.0 / 4.0

COURSEWORK

Active and Passive RF Design
Digital CMOS Design
MMIC Design
Power Amplifier Design
Control Systems
Signals and Systems
Computer Organization
Electronic Materials
Electromagnetics
Microprocessors
Discrete Mathematics
Epistemology
Russian

SKILLS

PROGRAMMING

Over 5000 lines:
C++ • Python • MatLab • LaTeX
Familiar:
Java • Verilog • VHDL

DESIGN

Fluent:
Keysight ADS • Ansys HFSS • SOLIDWORKS • AutoCAD
Familiar:
LTSpice • LabVIEW • Cadence

CERTIFICATIONS AND TRAINING

- Cleanroom
- Sputtering Systems
- 3D Printers
- Laser Cutters
- Keysight RF Microwave Industry-Ready Student Certification

EXPERIENCE

CALTECH | Research Technician Assistant

May 2018 – Present | Pasadena, CA

- Designed cryogenic low noise amplifiers for radio astronomy
- Assisted in the planning and system design for next generation radio telescopes

MITRE CORPORATION | RF Lab Intern

October 2017 – May 2018 | Tampa, FL

- Utilized RF simulation tools to aid in the testing of Department of Defense RF projects
- Developed solutions to mitigate systems-level design errors

NASA GODDARD SPACE FLIGHT CENTER | Student Trainee

January 2016 – Present | Greenbelt, MD

- Assisted designing and testing of RF measurement equipment for earth science research
- Wrote code on various platforms to automate measurements and data processing
- Verified device readiness for space-critical operations
- Designed models for mm-Wave devices and systems

RESEARCH

UNIVERSITY OF SOUTH FLORIDA ELECTRICAL ENGINEERING | Research Assistant

August 2014 – Present | Tampa, FL

- Accepted freshman year through the Research Experience for Undergraduate program
- Assist graduate level research in RF systems and devices.
- Learned process and procedure for research, simulation techniques, and advanced manufacturing techniques.

DESIGN PROJECTS

- Designed a 36 element patch antenna array for Ku Band Radar
- Designed and built 2.5 GHz Class-F Power Amplifier
- Designed, built, and tested a 4-6 GHz 1W FMCW Through Wall Imaging Radar
- Designed 680 GHz micromachined waveguide bandpass filter for space-qualified hardware
- Developed equivalent models for mm-wave noise source diodes

AWARDS

2018 Honors College Graduate
2018 King O'Neal Scholar (4.0 GPA)
2018 Outstanding EE Graduate
2017 Rudy Henning Award for Excellence in Wireless and Microwave Studies
2014 USF Research Scholars Award
2013 Eagle Scout

SOCIETIES

2014 X-Labs Engineering Club
2014 IEEE USF Student Branch