

Kiran Shila

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EDUCATION

UNIVERSITY OF SOUTH FLORIDA

MS ELECTRICAL ENGINEERING
College of Engineering
August 2019 | Tampa, FL

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

Antenna Theory
Active and Passive RF Design
Digital CMOS Design
MMIC Design
Power Amplifier Design
Numerical PDE
Signals and Systems
Computer Organization
Electronic Materials
Electromagnetics
Microprocessors
Linear Algebra

SKILLS

PROGRAMMING

Fluent:
C++ • C • MatLab •
L^AT_EX • Julia • Python
Familiar:
Java • Lisp • VHDL

DESIGN

Fluent:
Keysight ADS • Ansys HFSS •
SOLIDWORKS • AutoCAD
Familiar:
Microwave Office • LabVIEW

CERTIFICATIONS AND TRAINING

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

EXPERIENCE

MITRE CORPORATION | RF LAB INTERN

October 2017 – Present | Tampa, FL

- Developed solutions to mitigate systems-level design errors
- Designed, programmed, and prototyped embedded systems for wireless communication and power system efforts

CALTECH | RESEARCH TECHNICIAN ASSISTANT

May 2018 – August 2018 | Pasadena, CA

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

NASA GODDARD SPACE FLIGHT CENTER | STUDENT TRAINEE

January 2016 – Present | Greenbelt, MD

- Assisted designing and testing of RF measurement equipment for earth science
- Developed software to automate measurements and data processing
- Designed models for mm-Wave devices and systems

RESEARCH

UNIVERSITY OF SOUTH FLORIDA

ELECTRICAL ENGINEERING | RESEARCH ASSISTANT

August 2014 – Present | Tampa, FL

- Developed novel additively-manufactured 38 GHz antenna array for MIMO-capable 5G communications
- Manufactured mm-wave circuits and antennas with additive manufacturing and photolithography
- Tested and verified RF/Microwave components and systems

DESIGN PROJECTS

- Programmed firmware for mil-spec power management system
- 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 / MTT-S / APS