

Jikun Lu

786 218 9936 | lujikunlu@gmail.com

EDUCATION

Rice University	08/2022 – 05/2024
<i>Master in Electrical and Computer Engineering</i>	<i>Houston, United States</i>
Courses: Advanced VLSI Design, Mobile and Embedded Systems, Computer Architecture	
University of Miami	08/2019 – 05/2022
<i>BEng in Electrical Engineering</i>	<i>Miami, United States</i>
Courses: Computer Organization and Design, Digital Signal Processing, Digital System Design and Testing, Linear Control Systems	
Henan University	09/2017 – 07/2019
<i>BEng in Electrical Engineering</i>	<i>Henan, China</i>
Courses: Logic Design, Signals and Systems, Electrical Circuits Theory	

ACADEMIC PROJECTS

Single Aperture Interferometric 3D Optical Imaging	09/2021 – 05/2022
<i>Undergraduate Design</i>	
<ul style="list-style-type: none">• Developed measurement method for distance between the object and the transducer to get interference pattern.• Built LabView code for FFT, galvanometer controlling and filters.• Connected and tested the scanning system from LabView software on myRIO FPGA.	
Fundus Camera	06/2021 – 08/2021
<i>Graduate Research</i>	
<ul style="list-style-type: none">• Configured files of the Raspberry Pi and installed the modules of the touch screen camera• Developed camera control programs and UI with classmates• Printed the shell in 3D and packaged the device	
Full Field OCT for Imaging Scenes	09/2020 – 09/2021
<i>Graduate Research</i>	
<ul style="list-style-type: none">• Introduced the implementation and advantages of Numba in python• Ran tests to compare the speed between CPU and GPU• Performed full field OCT phase mapping and calculated time to get the phase of images• Determined the GPU programming algorithm of operating the camera• Summarized the limitations of GPU and camera• Developed the optical system and calculated the result of FFLL and interference	

SKILLS

Languages: Native in Chinese, Proficient in English

Programming: C, MATLAB, Verilog, LabVIEW, Linux