

FANYI MENG

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Education

Southern University of Science and Technology

Sep. 2019 – Present

Bachelor of Science in Electrical and Electronic Engineering, Communication Engineering

Guangdong, China

- GPA: **3.49/4.0** (85/100)

Relevant Coursework

- *Computer Networks*
- *Wireless Communication*
- *Digital Signal Processing*
- *Convex Optimization*
- *Design of Modern Communication System*
- *Antennas and Radio Propagation*
- *Microwave Engineering*
- *Information Theory*

Research Experience

Southern University of Science and Technology

Jun 2021 –Present

WANG Rui's Research Group

Guangdong, China

- Built a simulation platform based on **NS-3** to verify the performance of EDCA mechanism, measure the performance of different policies which are used to decrease the Video delay.
- Using **NS-3** to explore the relationship between contention window and throughput.
- Using **MATLAB** to show the performance which is based on the capture data to measure the performance of different policies which are used to decrease the Video delay.
- Optimize the age of information in an IOT system by using **Reinforcement Learning**
- More detail github.com/11911326/ns3-wifi-edcatest

Work Experience

Southern University of Science and Technology

February 2021 –July 2021

Student assistant in Department of Electronic and Electrical Engineering

Guangdong, China

- Assisted teachers in financial reimbursement and document review.
- Assisted teachers to organize meetings and make meeting minutes
- Welcomed teachers and briefed our university

Projects

Visible Light Communication | *Python,Raspberry Pi*

December 2021

- Built a platform to transmit signal via visible light,control the frequency of light by using Raspberry Pi.
- Used python to Code and Decode the text, successfully transmit the text with a low error rate.

Low Noise Amplifier | *HFSS, ADS*

January 2022

- Designed the size of low noise amplifier.
- Simulated the performance of LNA by using ADS and HFSS, export the layout and send it to factory.
- Tested the performance of the product by using VNA.

Text and Image Transmission | *Labview,USPR,HackRF*

May 2021

- Edited labview code for transmitter and receiver.
- Explored the performance under different frequencies, bandwidths and signal power ratio.

Technical Skills

Language Proficiency: Chinese(Native) , English(Fluent) , CET-6: 496, TOFEL :92

Programming Languages: Python, Java, C++, MATLAB,Labview

Developer Tools: VS Code, NS3 ,Overleaf, HFSS ,ADS

Leadership / Extracurricular

Basketball Team

Autumn 2019 – Present

Captain

Zhicheng College

- Won the championship in College of Engineering Cup, win the second place in College Cup.
- Leading 30+ members to practice and play games.