

Chen Hua

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Education

University of Southampton

September 2022 – November 2023

Master of Science with Distinction

Major in Electronic Engineering

Courses:

- Digital Coding and Transmission
- Wireless and Mobile Networks
- Signal Processing
- Wireless Transceiver Design and Implementation
- Advanced Wireless Communications Networks and Systems

Northwestern Polytechnical University

September 2018 – June 2022

Bachelor of Engineering

Electronics and Information Engineering

Courses:

- Signal and System I
- Digital Signal Processing
- Principles of Communication I
- Microwave Technique & Antenna
- Engineering Electromagnetic Fields and waves I

Projects

Transceiver System Design

January 2023

- **Superhet** transceiver designed with a thorough performance specification.
- Signals modulated in type **Pi/4DQPSK** and created as a **Matlab** simulation.
- Good offset, harmonics and image channel rejection performance, low BER and noise figure.

Research on Antenna of Vortex Electromagnetic Waves

June 2022

- Array antenna designed and modeled in **HFSS** and **CST**.
- Array modeled and analyzed with assistance from **MATLAB**.
- Multiple modes of vortex electromagnetic waves generated in X and Ku bands.

Work Experience

China Telecom Corporation Limited Nantong Branch

July 2024 – Current

Senior Technical Manager

- Provide expert consultation and customized solution proposals.
- Participate in industry technical seminars, track technical trends.
- Supported sales with solution design, demos, and technical communication to drive project implementation.

Skills

Digital Skills

- Simulation with **CST** Microwave studio, **HFSS** and **ADS**.
- Programming skills with **Python**, **C**, **MATLAB** and Arduino IDE.

Language Skills

- Mother Tongue: Chinese.
- Other language: English (IELTS 7.0) .