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Han Meng

Meng's Blog
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EDUCATION

Master of Electronic Information   **Sep 2022 - Jul 2025 (expected)**
University of Science and Technology of China

Main courses: Digital Signal Processing, Digital Image Analysis, Combinational Mathematics

Bachelor of Biomedical Engineering   **Sep 2016 - Jul 2020**
Xi'an Jiaotong university

Main courses: Signal and Systems, Analog and Digital Circuits, Data Structures, C Programming

WORK EXPERIENCE

Hardware Engineer   **Jun 2021 - Apr 2022**
Xi'an Dongfeng Automation Equipment Co., Ltd   *Xi'an, China*

- Designed hardware schematics and PCB diagrams that received and processed input signals by using AltiumDesigner.
- Developed FPGA module that measured frequencies of multiple signal by using verilog programming and ModelSim simulating skills, and achieved 99.9% accuracy.

Software Test Engineer   **Jul 2020 - Dec 2020**
Shenzhen Mindray Biomedical Electronics Co., Ltd   *Shenzhen, China*

- Achieved 1000+ test cases for monitor software using functional and automated testing skills.
- Optimized test cases that improved test coverage and guaranteed reliability of software version updates.

Internship   **Jul 2019**
Minimally Invasive Hospital   *Yulin, China*

- Learned the detailed principles and operations of CT and other medical instruments in practical, deeply understood the application.

PROJECT

Research on neural network algorithm based on emotion regulation   **May 2020**
Bachelor's Thesis

- Compared the reservoir computing grid model before and after the addition of positive and negative emotion regulation mechanisms by using Matlab programming.
- Improved the accuracy of the algorithm in predicting the spatial and temporal evolutionary features of the dynamical system by adjusting the activation function and specific parameters of the neural grid.

SKILLS

Programming	Python, Java, C, ,C++, Git, LaTeX, Matlab, MarkDown
Hardware Design	Verilog, Quartus2, ModelSim, AltiumDesigner
Communication	Chinese (native), English (business), Japanese (beginner)
Other	Github, Microsoft Office