Personal Resume

- Name：Dai Hongru
- Sex：Male

- Birthday：20 years old
- Political：Probationary Party

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EDUCATION

◉ **2020.09 - now**　　　　　　**ShanghaiTech University**　　　**Electronic Engineering**
GPA：3.46/4（TOP 50%）　CET-4：573　　CET-6：512
major course：Digital Integrated Circuit（A）Control Theory （A）Electromagnetism （A）Communication Theory （A-）Signals and Systems（A-）Analog Circuit（A-）

PROJECT EXPERIENCE

1. Introduction to Information Science and Technology course design:
Completed the solar energy automatic tracking system, took charge of 3D modeling and printing of structural model, participated in debugging algorithm and verification, and was awarded as an excellent course project
2.Digital Integrated Circuit course design:
Independently completed eight-input multiplier, eight-bit adder, eight-bit register circuit design and layout design and verification; independently completed 8x16 SRAM circuit design
3.Control Theory Course design:
understand and build the mathematical model of the automobile shock absorption system, adjust the parameters to meet the standard and verify the accuracy by simulation, and design the control law to make it give the same performance as predicted under different conditions

RESEARCH & AWARDS

1.Ornithopter project (in progress) : I learned the assembly of the mechanical structure of ornithopter, and independently assembled the demo of the motor power model and tested it in order to optimize the structural design Try. Learn the grammar and programming of esp32, and realize the control of 9 modes of the motor by the remote control of the flapping wing machine on arduino platform through the algorithm, so as to achieve a variety of work I can.
2.The First International College Students English Vocabulary Challenge 2022　　　　　 Second prize
3.the National English Grammar Challenge for College Students in 2022　　　　　　 Second prize
4.2023 "English World Cup" National College students English vocabulary Contest national　　First prize
5. The second National Olympic Mathematics Competition for College Students in 2022-2023　 Gold medal

SUMMARY

Solid programming skills: I have a solid foundation in several programming languages, including Python, C, C++, Verilog, and Arduino. I'm familiar with them Syntax and features, and the ability to independently develop and debug complex programs. I am good at using programming languages to solve problems, writing efficient, readable code, and pay attention to Code maintainability and extensibility.

Strong scientific research ability: I have a solid scientific research foundation and good scientific research literacy. Good at analyzing problems, making research plans and conducting experiments in an orderly manner. Have a high level of literature reading and understanding ability, can quickly and accurately read and analyze professional literature, obtain the required knowledge and information and organize and summarize the text Dedicated to key perspectives and research methods, and able to apply them to their own research work. Ability to deeply understand research problems and solutions in the literature and be able to on this basis, critical thinking and innovation.

Serious learning attitude: I am committed to learning and growth with a high degree of learning enthusiasm and firm perseverance. The thirst for knowledge drives me to expand my academic horizon And technical competence. Focus on making a reasonable study plan, efficient use of time, and good at self-regulation and management. Maintain an ongoing exploration of academic and technical issues Think and face challenges and difficulties. Through persistent efforts, I can achieve excellent results in study and research, and constantly improve my ability .