Name: Xinya Tang

Gender: Female

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Address: Wuhan University of Science and Technology, Hongwei Road, Qingshan District, Wuhan City, Hubei Province

Education:

- **Graduated from Wuhan University of Science and Technology with a bachelor's degree in electronic information engineering**
- **Currently studying MSc Robotics at the University of Manchester, United Kingdom**
- **Undergraduate Ranking:** 13/74
- **Undergraduate Grade Point (GPA):** 3.52/4
- **Major courses:** Power Electronics Technology (99), Optical Fiber Communication (94), Advanced Mathematics (96).
- **Class Position:** Class Leader

Skill:

- **Proficiency in:** Matlab、C language、Python and Verilog HDL。
- **Skills:** Proficient in Word, Excel, Powerpoint and other office software.
- **Communication:** Good English skills, able to communicate and communicate fluently in English. Good communication skills make it easier to collaborate with others.
- **Comprehensive quality**: have the ability to process and analyze data, rigorous and meticulous, strong execution, strong logical ability, and always maintain a learning state and self-summary. Team player.

Research & Practice:

- **2024.03** SegNet image semantic segmentation: Based on the FCN network structure, the decoding part is optimized, and SegNet uses the pooled index delivery method. The encoder calculates the pooling exponent at the maximum pooling step, and the decoder uses this data to perform nonlinear upsampling, which enables better recovery of spatial information and finer segmentation results, which is ideal for complex images or tasks that require high-precision segmentation.
- **2023.05** Based on the stc89C52, a system was designed to control the speed and forward and reverse rotation of the stepper motor by comprehensively using the relevant knowledge of single-chip microcomputer, electronic technology and signal processing, so as to realize the forward and reverse rotation, acceleration and deceleration and rotation of the stepper motor at a certain angle.
- **2023.02** The new fingerprint lock based on stc89C52 is expanded by the IO port and communicates with the single-chip microcomputer to realize the entry, storage and comparison of fingerprints, and displays the fingerprint collection process and comparison results through the 12864 LCD screen.
- **2021-2023,** I collaborated with my classmates to complete the fingerprint module lock block design report, the stepper motor motion module design report, and the "Grass Mowing Pioneer" Internet+ project.

- 2021.07-2021.08 Served as a teaching assistant teacher in the "Letong" programming training class, responsible for assisting in teaching children's programming.
- 2022.07-2022.08 Internship at "Minghua Computer", learning the structure and assembly of computers.
- 2020.10-2021.06 Member of the Youth Volunteer Service Team of the International College of Wuhan University of Science and Technology.
- 2021.07-2022.06 Director of the Youth Volunteer Service Team of the International College of Wuhan University of Science and Technology.

Honor:

- In 2021-2022, he won the third prize of the National College Student English Competition;
- In 2021-2022, he was awarded the title of "Outstanding Student Cadre" at the school level;
- In 2021-2022, he won the S Award of the United States International Collegiate Mathematical Contest in Modeling;
- In 2022-2023, he won the third prize of the National College Student English Competition;
- In 2022-2023, he won the third-class scholarship at the university level;
- In 2022-2023, he was awarded the title of "Outstanding Student" at the school level.