

Jinming Ren

EDUCATION

University of Electronic Science and Technology of China (UESTC)	Sept 2022 — Present
University of Glasgow, Dual Degree Program	Sept 2022 — Present
<ul style="list-style-type: none">• Major: Communication Engineering; GPA: 3.87/4.0, Ranking: 2/164 (Top 1.2%).• Relevant Coursework: Signals and Systems, Stochastic Processes, Information Theory, Electrodynamics, Digital Circuit Design, etc.• Online Course: Abstract Algebra, Complex Analysis, Differential Geometry, Control Theory, etc.	

RESEARCH & PROJECTS

YOPO: You Only Pick Once – Light Object Tracking Algorithm	Sept 2025
<ul style="list-style-type: none">• Developed a lightweight object tracking algorithm that requires only one initial selection, successfully mitigate the intense computation of DNN forward propagation on every frame.• Utilized NCC-based matching, adaptive kernel updating, capable of tracking objects with gradual color and size changes.	
Movable Antenna (MA) for Anti-jamming	Feb 2025 — Jun 2025
<i>Research Assistant, Professor Weidong Mei, UESTC</i> <ul style="list-style-type: none">• Conducted a heuristic investigation into Anti-jamming through stochastic antenna movement.	
Design and Visualization of a Complete Single-cycle RV32I CPU Core	Jan 2025 — Mar 2025
<ul style="list-style-type: none">• Designed and simulated an entire RISC-V 32-bit CPU from scratch in Verilog for RTL simulation and in Digital Software for working principle visualization.• Supported basic peripherals: GPIOs, IIC, UART, etc.• Implemented a simple boot ROM in assembly, minimal interrupt service for running a Linux kernel.	
Generalized Fields and Extension to Higher Dimensions	Oct 2023 — Feb 2024
<i>Research Assistant, Professor Yidong Liu, UESTC</i> <ul style="list-style-type: none">• Investigated generalized natural fields and behaviors in higher dimensions.• Provided an alternative perspective of understanding the electric field generated by a charged object by extending it to higher dimensions, making some symmetries in electrostatics much more tangible.	
Human Voice Recognition Smart Car	Sept 2023 — Dec 2023
<ul style="list-style-type: none">• Designed and implemented a voice-controlled car on STM32F103 using C standard libraries, supporting actions such as moving forwards/backwards, turning/sliding left/right.• Led a 4-member team in the project.	
First Place in “XinTong Cup” Electronic Design Competition	Sept 2022 — Oct 2022
<ul style="list-style-type: none">• Designed and implemented a 8-key music player using register-based development in Keil C51 on STC89C52 MCU.• Developed functions includes single note/chord playing, recording, replay and rewind capability, etc.	

RELEVANT SKILLS

IT Skills	Latex, Quarto Markdown, Typst, Manim, Github.
Programming Language	C/C++, Python, Matlab, Verilog, Chisel, RISC-V Assembly, Makefile, Bazel.
	Native Chinese, Fluent English.

AWARDS

Top Academic Scholarship of UESTC (Top 5%)	Dec 2023, Dec 2024
China National Scholarship (Top 3%)	Dec 2024
First Prize: 7th National College Art Exhibition and Performance	Sept 2024