YUN-RONG DU

Contacts	
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Education and Work B	Experiences —
Sep 2020 – June 2024	Electrical Engineering at National Taiwan University (NTU)
	• Average GPA: 4.1/4.3, 2023 Spring Dean's Award for Academic Excellence
June 2023 – Aug 2023	Dell Technologies Taiwan Design Center
	Electrical Engineering Intern in Power Team
	• Built an automation tool and visualization dashboard for power products management
Sep 2020 – Present	Math and English Tutor for high school
Project Experiences –	
June 2023 – Aug 2023	Google Hardware Product Sprint: Educational Recycling Bin
	• Won Google Best Product of the Year and Product for Social Good.
	• Built a recycling bin and implement image recognition to do automatic classification.
	• Designed an interactive web to deliver the correct concept of recycling.
Dec 2021 – Mar 2023	NTUEE (National Taiwan University Electrical Engineering) Light Dance
	• Studied protocols and wrote the library for LED control, solved the aberration problem
	when brightness decays, and improved the transmission speed.Designed PCB layout and validated hardware.
San 2022 Jan 2022	Digital Circuit Laboratory: Image Processing for Counting
Sep 2022 – Jan 2023	 Implemented Blob detection algorithm on streaming pixels on FPGA to achieve fast
	object detection and counting.
Mar 2022 – May 2022	COMPUTEX Taipei with Infineon Technologies: Revolving Recycling Bin
	• Won Infineon Sponsor Prize in MakeNTU with a recycling bin that features high
	garbage processing speed and capacity, and was invited to demo in COMPUTEX.
Extracurricular Work	
June 2022 – May 2023	MakeNTU • Event General Coordinator
-	• The largest student hardware Hackathon in Taiwan with 300 people and 20 enterprises.
	• Led team to raise funding, arrange field setups, maintain tools and electronic materials,
	build websites, hold workshops, and develop marketing strategies for promotion.
Jan 2022 – Jan 2023	NTU for FRC (FIRST Robotics Competition) • Director
	• Gave lectures for more than five high schools to promote STEM education.
	• Volunteered in the 2022 FRC Regional in Taiwan as the Control System Advisor.
Oct 2023	Taipei City Government x TSMC High School Women-in-Tech Forum • Host
	• Hosted the forum with over 100 students to promote diversity and inclusion in STEM.
Research	
Sep 2022 – June 2023	Electronic Research IC Lab, Prof. Tsung-Hsien Lin
	• Worked on amplifiers and oscillators, focusing on improving circuit stability.
Sep 2022 – June 2023	Robot Learning Lab, Prof. Shao-Hua Sun
	• Worked on Multi-Task Decision Transformer, aiming to realize offline skill merging.
Skills and Languages	
· Programming	C++ / Python / Java
• IC Design	Verilog HDL / FPGA / SPICE / Virtuoso
· Language	Mandarin Chinese (Native) / English (Fluent) / German (Beginner) / Japanese (Beginner)
Profession	VLSI Design / Reinforcement Learning / Robotics / Hardware System