





Jaehyung (Andrew) Choi

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Education

Engineering Tripos (BA & MEng)	University of Cambridge	Cambridge, UK	10/2022 - 06/2026
<ul style="list-style-type: none">1st class in 1st year (Mechanical Engineering and Thermofluids, Structures and Materials, Electrical and Information Engineering, and Mathematical Methods)Upper Second Class in 2nd year (Mechanics, Thermofluid Mechanics, Structures, Materials, Electrical Engineering, Information Engineering, Mathematical Methods, Business, Manufacturing Engineering, Machine Learning)			

Skills

- C | C++ | Python | Git | Docker | Linux | Cloud Computing | Embedded Systems | CMSIS | IoT | Android Development
- AI | Machine Learning | Deep Learning | Computer Vision | LLM | Pytorch | LangChain | Prompt Engineering
- English, Korean – All professional proficiency or above

Experience

Research and Education Intern	Arm	Cambridge, United Kingdom	07/2024 - Present
<ul style="list-style-type: none">Developed and delivered a series of MOOC courses—including a beginner-level MicroPython programming course for the BBC micro:bit, an advanced STM32 development course leveraging CMSIS, HAL, and RTOS for I2C, serial communication, and interrupts, and an advanced IoT course integrating BLE and MQTT within Keil Studio.Designed and implemented a chatbot using advanced prompt engineering techniques—namely Retrieval-Augmented Generation (RAG), AI Agent, and LangChain—to enhance productivity for both internal and external users, developed and maintained in the Microsoft Azure AI Studio environment.Developed an automated compliance-checking tool using Python to analyze member data and verify submission of annual reports. The script automatically sends email notifications to those who fail to meet the contractual requirements.Built a metadata generation tool utilising GPT-4o and LangChain to automate the creation of structured metadata.Ran LLM models on ARM devices such as Android/iOS smartphones and optimised the models by pruning and quantisation.			
Machine Learning Research Intern	Auto-ID Labs KAIST	Daejeon, South Korea	06/2023 - 09/2023
<ul style="list-style-type: none">Actively contributed to implementing algorithms for the AI Speaker using OpenAI Whisper and GPT-3.5-Turbo API.Deployed deep learning models, including YOLOv8, FastSAM, and Ultra-Fast-Lane-Detection-V2, on edge devices like Xilinx FPGA and NVIDIA Jetson Orin.Developed an AI Speaker using Raspberry Pi with OpenAI Whisper for speech recognition and GPT-3.5-Turbo for response generation. Integrated Humelo API for Text-To-Speech capabilities.Designed and implemented a lane detection system using GoPRO Hero11 and Ultra-Fast-Lane-Detection-V2 on NVIDIA Jetson AGX Orin. Optimised performance using TensorRT for real-time lane departure warnings.Organised the GS1 Exhibition and had the opportunity to present my AI-related work to the CEO of GS1.			

Projects

Device Programming	01/2024 - 2/2024
<ul style="list-style-type: none">Programmed STM32 Nucleo-144 board using ARM Keil Studio to record a sequence of colours entered by the user and then play it back.Programmed the microcontroller to record temperature by I2C communication with the LM75 sensor and trigger an interrupt when it goes above a threshold value using hardware interrupt.	
Integrated Design Project	10/2023 - 12/2023
<ul style="list-style-type: none">Led the software team to create a line-following and path-finding algorithm using an IR sensor with Arduino.Designed a system that can tell apart two objects using ultrasonic and ToF sensors.As a project manager, created a Gantt chart and helped the Electronics and Mechanical teams work together to finish the robot on time for the competition.	

Mentorship

A Level / GCSE Maths & Physics Tutor	10/2022 - Present
<ul style="list-style-type: none">Experienced educator in A Level and GCSE Maths and Physics, having instructed over 20 students ranging from Year 10 to Year 13.Provided personalised guidance on personal statements for Oxbridge and Imperial College London applications, along with an interview preparation assistance.	