YIHYUN KWON

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Summary

Dedicated Electrical Engineering student with a strong passion for hardware and software development, particularly in computer architecture. Proficient in programming languages such as Java and Python, with ongoing exploration of embedded systems and hardware design using VHDL. Eager to leverage technical expertise to develop innovative solutions in electronics and computing.

Experience

Summer Intern   **08/2024 to 09/2024**
Heerim Architects & Planners Co., Ltd.   **South Korea**
Intern Researcher at Artificial Design Lab (ADI Lab), Research Institute

- Conducted research on image generative AI, including models like Flux and Stable Diffusion, and explored their potential applications in architectural design
- Developed custom nodes in ComfyUI to integrate large language models (LLMs), such as ChatGPT and Ollama's Vision features, using Python APIs
- Developed additional UI features to integrate Ollama's Llava-Llama3 model and Google Translate with Fooocus using Python APIs, substantially enhancing usability and improving the image generation workflow within the company
- Authored a ComfyUI Manual for internal training and employee support.

Summer Intern   **08/2023 to 09/2023**
MANGOSLAB   **South Korea**

- Worked as a planning team intern, preparing the CES 2024 Innovation Award application and developing a Kickstarter crowdfunding page for Nemonic, a sticky note printer and its cartridges, successfully raising over £200,000.
- https://www.kickstarter.com/projects/aesty/nemonic-gen-2-print-ultra-sticky-notes-without-wires-or-ink

Skills

- Java
- Swift
- Python

- VHDL
- MATLAB & MATLAB Simulink
- Visual Programming

Education

Electrical and Electronic Engineering (MEng)   **2027**
University of Bristol   Bristol

- Activities and Societies: Korean Society, Seven-a-side football, Rock Band, Bristol EEE Society
- Y1: First Class Honours

HS DIPLOMA   **2023**
ACS COBHAM INTERNATIONAL SCHOOL   Cobham
Activities and Societies: STEM Club Co-leader, SATRO Problem Solving Challenge Finalist, National Honor Society(NHS), Varsity Swim Team
Awards:

- Outstanding Achievement in AP Calculus Award
- Outstanding Achievement in AP Physics 2 Award
- Head of School's List Award
- Honour Roll Award
- Trinity College London Classical Music Clarinet Grade 7 Exam Distinction

Projects

- **get it done! - To-do list app:** An iOS productivity app designed to efficiently manage work time and enhance study habits. Featuring a stopwatch and to-do list, it prioritises intuitive navigation and usability to streamline your workflow and improve productivity.