

# Jiho Choi

📍 Seoul, South Korea 📩 jihochoi@yonsei.ac.kr 🏠 jihochoiii.github.io 🌐 jihochoiii

## EDUCATION

**Yonsei University**, Seoul, South Korea  
B.S., Electrical and Electronic Engineering (GPA: 4.07/4.3), Feb. 2025

**Nanyang Technological University**, Singapore  
Visiting Student Program, Entrepreneurship and Innovation, June 2024–July 2024

**University of California, Los Angeles**, Los Angeles, United States  
Exchange Student Program, Electrical Engineering, Jan. 2023–June 2023

**Gyeongnam Science High School**, Jinju, South Korea  
High School Diploma, Feb. 2020

## RESEARCH EXPERIENCE

**Undergraduate Researcher**, Jan. 2024–June 2024  
Compiler Optimization Research Lab (Advisor: Prof. Hanjun Kim), Yonsei University

- Developed a client-server application using the Keystone trusted execution environment (TEE) framework to securely execute client-requested arithmetic operations within a trusted enclave
- Studied the operation of TEEs and explored opportunities to optimize their performance
- Developed proficiency in writing LLVM passes for program analysis and optimization

## WORK EXPERIENCE

**Co-Founder & Chief Technology Officer**, Mar. 2024–Oct. 2025  
MEGA, Seoul, South Korea

- Developed a smart demand response (DR) controller that automates DR event responses and is compatible with a wide range of household appliances, enhancing residential participation in DR
- Selected for the Yonsei-Asan UniverCT Climate Tech Startup Accelerator; received \$12.6K in grant funding from the Asan Nanum Foundation and won the Excellence Award (\$2K) at Demo Day

**Research Intern**, July 2024–Oct. 2024  
NetZero LAB, Gwangmyeong, South Korea

- Participated in a project to integrate on-site photovoltaic generation with smart farming operations

## TEACHING

**ENG1108 Engineering Information Processing**, Yonsei University, Fall 2024  
Undergraduate Teaching Assistant

- Led weekly two-hour lab sessions for 40 students, covering the basics of C programming
- Wrote and graded assignments and exams

## HONORS AND AWARDS

Excellence Award (\$500), Women in Science, Engineering and Technology in Korea (WITECK), 2024  
Excellence Award (\$2K), Yonsei-Asan UniverCT Demo Day, 2024  
Yonsei-Asan UniverCT Startup Grant (\$12.6K), Asan Nanum Foundation, 2024  
Study Abroad Scholarship (\$7K), Mirae Asset Park Hyeon Joo Foundation, 2023  
Academic High Honors (Top 3% GPA), Yonsei University, 2021  
Academic Honors (Top 10% GPA), Yonsei University, 2020

## EXTRACURRICULAR ACTIVITIES

Yonsei Electrical and Electronic Engineering Honor Society, Member, 2021–2025  
Yonsei-Asan UniverCT Climate Tech Startup Accelerator, Participant, 2024  
Yonsei EE Festival, Organizing Staff, Fall 2022  
Yonsei EE Peer Tutor Program, Organizer, Fall 2022  
Yonsei EE Peer Tutor Program, PHY101 General Physics & Experiment(1) Tutor, Spring 2021  
Yonsei GLC Online Tutoring, MAT101 Engineering Mathematics(1) Tutor, Spring 2021

## TECHNICAL SKILLS

**Languages** C, C++, Assembly (RISC-V, x86-64), Python, MATLAB  
**Tools** Verilog, Vivado/Vitis, Arduino, CUDA, LLVM, HTML, CSS, Git, L<sup>A</sup>T<sub>E</sub>X