

Minki Lee

Integrated M.S. + Ph.D. Program Student
CompSec Lab, Department of Computer Science and Engineering
Pohang University of Science and Technology (POSTECH), South Korea
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INTERESTS

- Cyber-Physical Systems (CPS) Security
- Distributed & Embedded System Engineering
- Secure Design and Development
- CPS System Engineering & Architecture

EDUCATION

Integrated M.S. & Ph.D. Program

Computer Security Lab, POSTECH CSE

Expected to enroll, in September 2025

Pohang, South Korea

- Advisor: Seulbae Kim
- Research in Cyber-Physical Systems' security
- Swarm system resilience and defense

Bachelor of Engineering in Computer Science Major

DGIST, School of Undergraduate Studies

February 2021 - August 2025

Daegu, South Korea

- WAM/GPA: 3.60/4.30, percent scale: 93.0%
- Bachelor's Thesis-substitute Report: Security for Reliable Swarm Cyber-Physical System
- Courseworks: Computer Security, Computer Network, Computer Architecture, Operating Systems, Computer Algorithms, Control Engineering, Real-time Embedded Systems

Summer Session Visiting Student

UC Berkeley, GPA 4.0 / 4.0

June 2023 - August 2023

Berkeley, California

- Visited by FGLP (Freshman Global Leadership Program), supported by DGIST

Completion of Technical Venture Leader Course

DGIST TVA (Technical Venture-leader Academy)

23 February 2023

Daegu, South Korea

SKILLS

Languages: Korean (Native), English (Proficient)

Computer Languages: C/C++, Python, JavaScript(+HTML+CSS), PHP, Dart

Tools and Testbeds: PX4 & ROS2 & gazebo, Crazyflie 2.X, Matlab-based simulations

AWARDS AND HONORS

Tech Award (Team CompSec) | *HackTheDrone 2024*

30 October 2024

- Korea Drone Innovation Association President's Award
- **7th place** in Finals, October 30th, 2024.
- **2nd place** in Qualifier, September 7th - 8th, 2024.
- Packet and Network analysis, Software-Defined Radio

Full Scholarship | *DGIST*

February 2021 – August 2025

- Full National Scholarship

Grand Prize (DGIST President Award) Winner | *DGIST Startup Contest*

8 October 2022

- As leader of **2nd place winning** pre-startup group
- Personalized learning Software-as-a-Service (SaaS) provider startup

EXPERIENCES

Research

Visiting Undergraduate Intern

CompSec Lab at POSTECH

- Advisor: Seulbae Kim
- Computer Security & CPS Security
- Research in Drone Swarm System Testbed

June 2024 - August 2025

Pohang, South Korea

Undergraduate Student Researcher

Cyber-Physical Security (CPSec) Lab, DGIST

- Advisor: Hongjun Choi
- Research about Secure and Robust Operation of Future Mobility (Drone Swarm)
- UGRP (Undergraduate Group Research Project) for Resilient Swarm Drones
- Presented Demo Poster at VehicleSec 2024, San Diego, United States

November 2022 – June 2024

Daegu, South Korea

Research Internship

2024 Winter Internship Program, Department of EECS, DGIST

- CSI Lab, Advisor: Kyung-Joon Park
- Research about Secure and Robust Future Mobility System

December 2023 – January 2024

Daegu, South Korea

Work

CUOP (Company - University Cooperation Program) Intern

Quester

- Intern Developer
- Computer Vision AI model (object detection and tracking) for sensor fusion
- Experienced {YOLOv8, BiSeNet, SORT, DeepSORT, SAMURAI, SLAM}
- Product Security Analysis (Reverse Engineering)

December 2024 – February 2025

Daegu, South Korea

CUOP (Company - University Cooperation Program) Intern

BostonAIMS

- Intern Developer
- AI model Server Deployment/Development
- Experienced Huggingface, Dart/Flutter, Docker along with Firebase Server

June 2022 – August 2022

Seoul, South Korea

Teaching

Undergraduate TA (Teaching Assistant)

School of Undergraduate Studies, DGIST

- Subject: CSE401, Introduction to Database
- Computer Science and Engineering Major

August 2024 - December 2024

Daegu, South Korea

PUBLICATIONS

Demo: One Shot All Kill: Building Optimal Attack on Swarm Drones

Symposium on Vehicle Security and Privacy (VehicleSec 2024), San Diego, United States

Minki Lee, Gangmin Kim, Jonghyun Kang, Hyunwoo Kim, Jangwon Lee, Hongjun Choi

<https://dx.doi.org/10.14722/vehiclesec.2024.25008>