

Minki Lee

{leeminki} at postech.ac.kr | GitHub: @leeminki02
Integrated M.S. + Ph.D. Program Student
CompSec Lab: <https://compsec.postech.ac.kr>
Department of Computer Science and Engineering
Pohang University of Science and Technology (POSTECH), South Korea



INTERESTS

- {Cyber-Physical Systems (CPS) | Distributed Systems | Embedded Systems} Security
- Secure-by-Design Development
- CPS Architecture & Engineering
- Open Source Software Security

SKILLS

- **Languages:** Korean (Native), English (Proficient)
- **Computer Languages:** C/C++, Python, JavaScript, PHP, Dart
- **Tools and Testbeds:** PX4/Pixhawk system, ROS2, gazebo, Crazyflie, Matlab simulations

EDUCATION

Integrated M.S. & Ph.D. Program

Computer Security Lab, POSTECH CSE

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

September 2025 - Present

Pohang, South Korea

Bachelor of Engineering in Computer Science Major

DGIST, School of Undergraduate Studies

- 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}

February 2021 - August 2025

Daegu, South Korea

Summer Session Visiting Student

UC Berkeley, GPA 4.0 / 4.0

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

June 2023 - August 2023

Berkeley, California

Completion of Technical Venture Leader Course

DGIST TVA (Technical Venture-leader Academy)

23 February 2023

Daegu, South Korea

AWARDS AND HONORS

Tech Award (Team CompSec) | HackTheDrone 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

30 October 2024

Full Scholarship | DGIST

- Full National Scholarship

February 2021 – August 2025

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

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

8 October 2022

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>

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

Teaching

Research Assistant

Department of Computer Science and Engineering, POSTECH

- CSED199: Freshman Research Participation
- Computer Science and Engineering Major

August 2024 - December 2024

Pohang, South Korea

Undergraduate TA (Teaching Assistant)

School of Undergraduate Studies, DGIST

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

August 2024 - December 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