

# Minki Lee

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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

<b>Integrated M.S. &amp; Ph.D. Program</b> Computer Security Lab, POSTECH CSE	September 2025 - Present <i>Pohang, South Korea</i>
- Advisor: Seulbae Kim - Research in Cyber-Physical Systems' security - Swarm system resilience and robustness	
<b>Bachelor of Engineering in Computer Science Major</b> DGIST, School of Undergraduate Studies	February 2021 - August 2025 <i>Daegu, South Korea</i>
- 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}	
<b>Summer Session Visiting Student</b> UC Berkeley, GPA 4.0 / 4.0	June 2023 - August 2023 <i>Berkeley, California</i>
- Visited by FGLP (Freshman Global Leadership Program), supported by DGIST	
<b>Completion of Technical Venture Leader Course</b> DGIST TVA (Technical Venture-leader Academy)	23 February 2023 <i>Daegu, South Korea</i>

## AWARDS AND HONORS

<b>Tech Award (Team CompSec)   HackTheDrone 2024</b> - Korea Drone Innovation Association President's Award - <b>7th place</b> in Finals, October 30th, 2024. - <b>2nd place</b> in Qualifier, September 7th - 8th, 2024. - Packet and Network analysis, Software-Defined Radio	30 October 2024
<b>Full Scholarship   DGIST</b> - Full National Scholarship	February 2021 – August 2025
<b>Grand Prize (DGIST President Award) Winner   DGIST Startup Contest</b> - As leader of <b>2nd place winning</b> pre-startup group - Personalized learning Software-as-a-Service (SaaS) provider startup	8 October 2022

## PUBLICATIONS

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### 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

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### 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*