

# Course Overview

ITM424:  
Computer Systems  
1<sup>st</sup> Lecture, Sep. 6, 2024

**Instructors:**  
Moon Hea-Eun (Ocean)

# Overview

- Introductions
- Big Picture
  - Course theme
  - Five realities
  - How the course fits into the CS/ECE/INI curriculum
- Logistics

# Instructor



## Bio

- 2014 ~ Now : NSHC Inc. Red Alert Research Institute Director
- 2002 ~ 2014 : NetMan Co., Ltd. Research Institute Director

## Latest Activities

- 2020.02 : IAEA Conference Speaker in Austria
- 2019.08 : DEFCON ICS/SCADA CTF Organizer
- 2019.08 : CISS SCADA CTF – Winner
- 2018.08 : DEFCON ICS/SCADA CTF Organizer
- 2018.07 : IOT Singapore CTF – 2<sup>nd</sup> Winner
- 2017.11 : CODEBLUE Hack2Win 2017 – Winner
- 2017.08 : CISS SCADA CTF – Winner
- 2015.11 : CODEBLUE Hack2Win 2015 – Winner
- 2015.10 : Whitehat Contest Final
- 2014.10 : Whitehat Contest Final 3<sup>rd</sup>
- 2013.08 : DEF CON, Capture The Flag 8<sup>th</sup>
- 2010.10 : ISEC 2010 Capture The Flag winner
- 2010.08 : DEF CON, Capture The Flag 6<sup>th</sup>

- ocean.moon@seoultech.ac.kr
- hemoon@nshc.net
- mayfly74@gmail.com

# Instructor - Research

- Offensive Research
- Bug hunting research
- More Focus on IoT, ICS/SCADA
- Found over 255 real world 0-day vulnerabilities
- Specialize in Red Teaming Exercise
- Provide Consulting, Test Bed, CTF, Penetration Test, Vulnerability Assessment and Training Service

# Instructor - Training

<https://st.nshc.net/ko/training/>



#ICS 취약점 #OT위협 #PLC&HMI #RF #BadUSB #BadDNS

## ICS/SCADA

산업 현장에서 실제로 사용되고 있는 각종 장비  
로 직접 실습해보세요!

- 제20회 : 2023년 6월 27일(화) ~ 6월 29일(목)
- 제21회 : 2023년 11월 29일(수) ~ 12월 1일(금)



#IoT펌웨어 #ZeroDay #정적분석 #동적분석 #Exploit실습

## IoT Exploitation

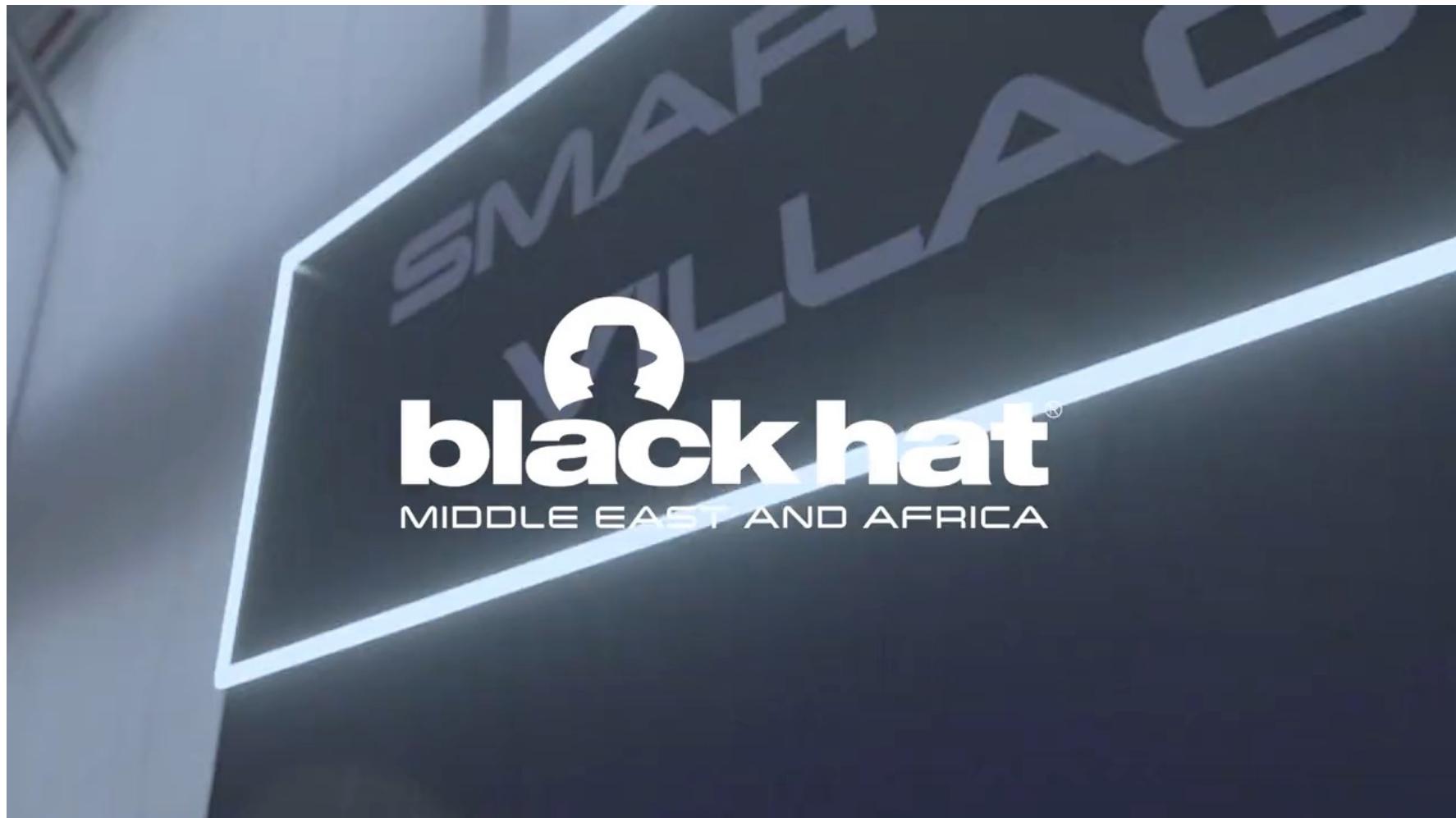
일상에서 사용하는 각종 IoT 장비들, 직접 분석하  
고 공격하여 해커의 관점에서 IoT를 다뤄보세요!

- 준비 중입니다 😊

# Instructor - HITB Cyber week (2021)



# Instructor - Black Hat MEA (2022)



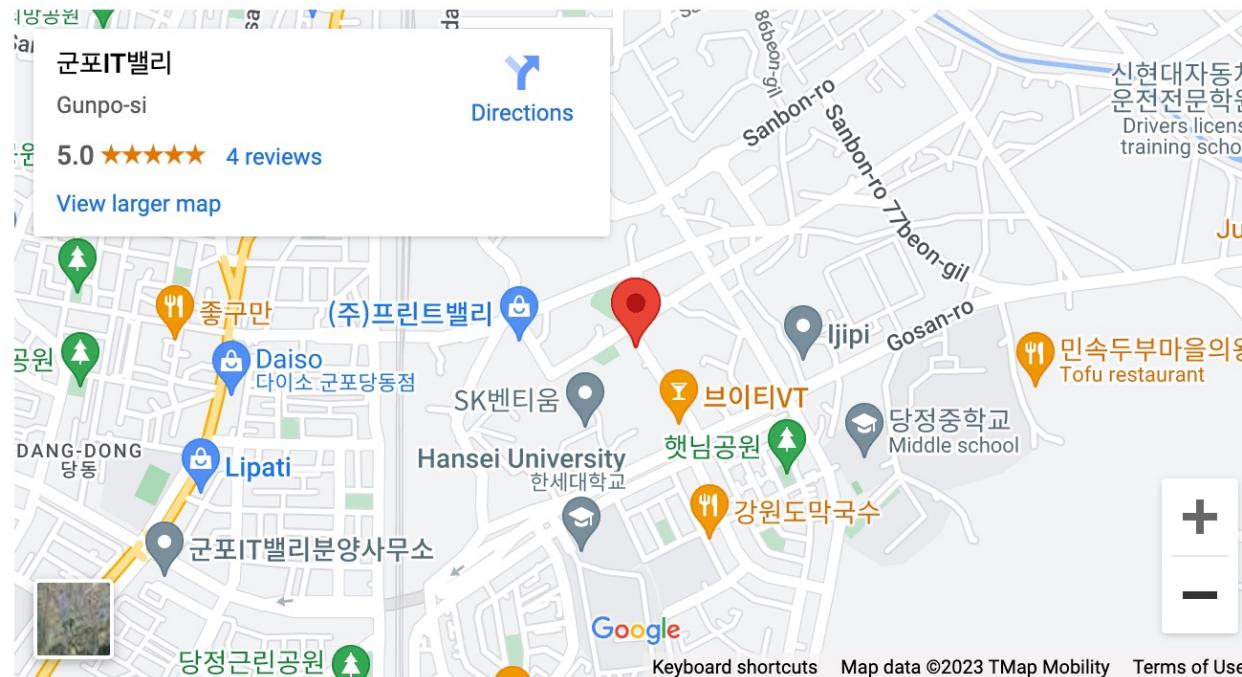
# Instructor - Brainhack CDDC CTF (2023)



# Instructor - DEFCONICS/SCADA CTF (2023)



# Instructor - Location



## 군포 오피스

경기도 군포시 고산로 148번길 17  
군포IT밸리 B동 414호

Welcome  
and Enjoy!