

# Hardware Security

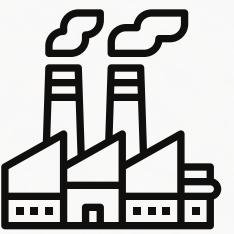
KAMILIMU COHORT 9: CYBER SECURITY

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# Why Hardware Security

- 1 Remember the Intro to Offensive and Defensive Technologies class... every technology matters
- 2 Smart watches... where are hardware technologies in use?
- 3 Impact of an attack on hardware security
- 4 It can also be a defensive measure!

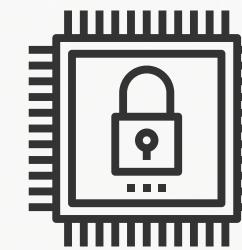
# Where?



ICS/SCADA  
Devices



Internet of Things  
(IoT) devices



Embedded computing  
and others...

# What could go wrong?

Data disclosure

Supply chain attacks

Physical tampering

Unpatched components

Weak/Default credentials

Side channel attacks e.g. eavesdropping

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# Example: Silicon Labs



# Resources

Excellent places to learn more about hacking and securing hardware :)

## Your favourite tool/retailer

Practice using tools you use often or that are available to you!

Many large brands have security disclosure programs for their hardware technologies including:

- Xiaomi
- OPPO
- Intel
- Amazon
- Google

## Security Research blogs on the topic

There are many writeups on newly discovered vulnerabilities or how to prevent them in places such as:

- [Unit 42 blog](#) (under IoT)
- [Siemens](#)
- [Kaspersky blog](#)
- Hardware as a defense ([here](#))
- so many more...

## Pwn2own

Link: [here](#)

- Awesome global competition that brings top researchers to find vulnerabilities in various hardware from top organizations.

# The end

QUESTIONS?