

CIS 700/002 : Special Topics : Security of Embedded Systems, Cyber-Physical Systems, and Internet-of-Things

Insup Lee and James Weimer

CIS 700/002: Security of EMBS/CPS/IoT

Department of Computer and Information Science

School of Engineering and Applied Science

University of Pennsylvania

February 17, 2017

Today's Class

- **Assign next week's tool demo**
- A large-scale analysis of the security of embedded firmwares. A. Costin et al., USENIX Security, 2014.
 - presenter: Teng
- Metaphor: a (real) real-life stagefright exploit. North-bit.
 - presenter: Hung
- **Break**
- Bluetooth: With Low Energy comes Low Security. M. Ryan, Workshop on Offensive Technologies, 2013.
 - presenter: Kamenee

Next Week

- Tool demos:
 - Wireshark
 - presenter: Omkar and Bipeen
 - Nmap / zenmap / zmap
 - presenter: Teng and Kamenee
 - aircrack-ng / fern / reaver
 - presenter: Dagaen