

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

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

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*March 31, 2017*

# Today's Class

- Back to papers:
- Cocaine Noodles: Exploiting the Gap between Human and Machine Speech Recognition
  - Swathi
- Unmanned Aircraft Capture and Control via GPS Spoofing
  - Nikheel
- A survey of secure middleware for the Internet of Things
  - Hyo Jin
- **BREAK**
- Secure MQTT for Internet of Things (IoT)
  - Sangdon
- Secure embedded systems
  - Hitali

# Final Project

- Use tools and insight to assess the security of a commercial device
  - What information is made available?
  - How could this information be exploited?
  - How can these vulnerabilities be patched.
- Has anyone not chosen a device?
- Description on course website (under projects)
  - April 7<sup>th</sup>: Mid-term
  - April 28<sup>th</sup> : Final Demo

# Next Week

- Guest speaker: Robert Broberg
  - Cisco Research Center - Security
  - "Enter the world of connected things; an inflection point"
- Project mid-terms
  - In-class "rapid-fire" preliminary assessment of device
  - 2 slide presentation:
    - device overview (slide 1)
    - preliminary security assessment (slide 2)