Project: Trusted Electronic Systems

Advisor: Dr. Geiger & Dr. Chen

Members: Fatema Aftab (Team Leader), Yitao Liu (Key Concept Holder), Qian Chang (Communications Leader) Chao Huang (Communications Leader), Colton Bachman (Webmaster), Xin Hu (Webmaster)

Weekly Summary

This is an important week for our team, because we made a decision about using FPGA to make hardware Trojan for vending machine. During this week, we met with Professor Chen to discuss our decision and had a team meeting to discuss the vending machine hardware Trojans as well. After several weeks researching, we lock the target. Additionally, we distributed individual tasks to each one.

Pending Issue

1. Learn details of HT detection methods.
2. Learn how to make Trojan.

Plans for next week

Continue working on detecting HT and making HT in FPGA. Discuss with Dr. Chen and Dr. Geiger about the method we found last week about detect HT. If the we find out a proper vending machine code, we can start to discuss Trojan embedding.

Personal Contribution

- Chao Huang (5.5hrs): learn the detail of each detection methods
- Qian Chang (6hrs): find hardware schematic of vending machine.
- Fameta Aftab (4.5hrs): learn the method of hardware Trojan activation and triggers.
- Xin Hu (5.5hrs): find code of vending machine and research how to make Trojan in FPGA.
- Colton Bachman (4.5hrs): learn how to make a Trojan in vending machine.
- Yitao Liu (4hrs): research hardware Trojan detection method.

Name	Weekly hours	Cumulative hours
Chao Huang	5.5hrs	30.5hrs
Qian Chang	6hrs	31hrs
Fatema Aftab	5hrs	31hrs
Xin Hu	5.5hrs	31.5hrs
Colton Bachman	4.5hrs	28hrs
Yitao Liu	4.5hrs	26.5hrs