

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

We paid attention on classifying the type of Hardware Trojan in the past week. It is one of our expected deliveries from this project. We are doing some research and reading some paper to obtain the relative information as much as possible. Then, it is necessary to put everyone's research result together.

## Pending Issue

- 1 More research about Hardware Trojan.
- 2 How to make a Trojan and insert it into hardware.

## Plans for next week

For the next week, we need to spend more time on Trojan research, our first step is to make Trojans and insert it into hardware, so we need deeper research about Trojan classification, we need to identify different Trojans and then we can find proper way to eliminate Trojans. These research also can help us know how to make Trojans and what kind of Trojans we need to make, before we produce Trojans, we need to understand the structure of it. So, for previous week we mainly focused on Trojan research, now for future week, we can try to make it under help of our advisor. Also, we need to write our Project Plan Version 1 next week, and do deeper research about hardware Trojan.

## Personal Contribution

Xin Hu:

For this week, I spend 5 hours to research a document that introduce some knowledge of how to design and build a hardware Trojan. The name of this document is Experiences in Hardware Trojan Design and Implementation Yier Jin\*, Nathan Kupp\*, and Yiorgos Makris. Department of Electrical Engineering, Yale University.

This document described how to change the system vhd file to design the hardware trojan. For more detail, I will keep studying it.

Chao Huang:

Read paper and do research to classify Hardware Trojan.

Qian Chang :

Do research to classify Hardware Trojan and make notes.

Name	Weekly hours	Cumulative hours
Chao Huang	5hrs	20hrs
Qian Chang	5hrs	20hrs
Fatema Aftab	5hrs	21hrs
Xin Hu	5hrs	22hrs
Colton Bachman	3hrs	20hrs
Yitao Liu	3hrs	19hrs