Hi, welcome to my presentation about my personal vulnerability investigation.

I started brainstorming by looking at my own devices to see if I could do a project by upgrading or customizing these. I started out by doing research on some topics to see what I would think is challengeable, interesting and realistic. This is how I came across the topic of Android TV.

That’s how I came up with my research question which is: How can I run Android TV on my TLC.

My TLC was running on its own software with build-in-apps like Netflix and a lot of other unfamiliar ones. The problem was that I also use streaming services like Amazon Prime, Disney plus and Plex which I missed.

I did some research and found out that the hardware of my tv isn’t compatible with android tv. This means I can’t flash the firmware or my tv would become completely useless. Because of this I needed to use an external device with an operating system.

To complete my plan, I needed a:

* Rasberry pi with Wi-Fi
* Micro SD-card
* BalenaEtcher
* Android TV software
* FAT32 USB-stick
* Google apps package

I needed the Android TV version which is compatible with my raspberry pi, and I downloaded it from LineageOS. Lineage is an open-sourced Android distributer for multiple devices including mine.

With BalenaEtcher I was able to write the operating system safely to my SD card, started it up from my raspberry and put it in developer mode to configure my system.