

### "Smart" Vacuum Cleaners

An Audit Into The Security and Integrity of IoT Systems
Andrew Wong | UNSW Sydney

# Today's Agenda

- Thesis B plan
- Thesis B review
- Thesis B retrospective
- Thesis C revised plan

### Statement

How have manufacturers of IoT / smart home devices addressed the increasing concerns of digital privacy and product security?

- Digital Privacy Investigate the nature of network data (i.e. content, frequency, destination) and how the data is used.
- Product Security Investigate potential security vulnerabilities and assess the effectiveness of current security fortifications.

Talk about threat models

Talk about thesis A talk about thesis b Talk about thesis c

threat models

work done in thesis c

hooking into code..

Network analysis

### **Incoming Timeline**

- 22T2 W1 IPv6 SSH verification, continue binary assessment
- 22T2 W2 WAN traffic analysis
  - Look at network behaviour
  - Try view WAN data pre-encryption / post-decryption
- 22T2 W4 Update to latest version (and hope we don't get locked out)
  - Do another vacuum clean, reimage, compare binaries
- 22T2 W5 Factory reset device, check for remnant files
- 22T2 W8 Demo submission
- 22T2 W11 Report submission

## Thank You

#### Andrew Wong

w: featherbear.cc/UNSW-CSE-Thesis

e: andrew.j.wong@student.unsw.edu.au

6