Wi-Fi BASED INTRUDERS DETECTION DEVICE

PI 2015700856

Apartment room signal patterns
(2 windows, lite, hollow door)

Intrusion detection 85%, False alarms 12.5%

Storage room signal patterns

Intrusion detection 100%, False alarms 0

Metal safe signal patterns

Intrusion detection 100%, False alarms 0

Scan here for demonstration
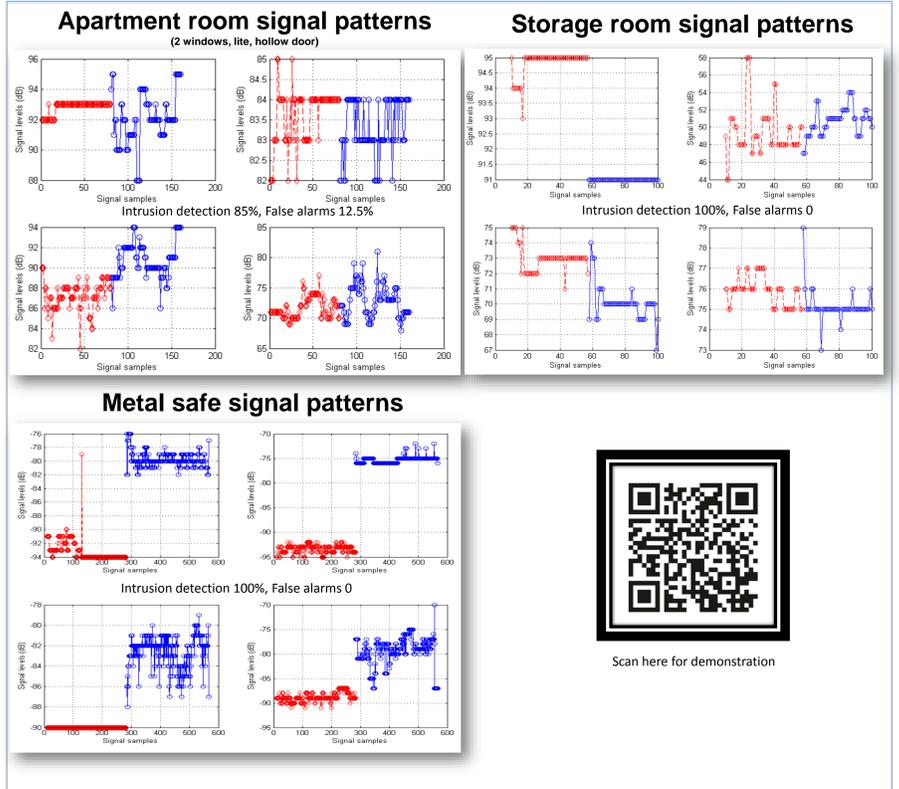
NEED

- **38,877** criminal cases reported between January to April 2016, burglary cases is the most reported. Some of them became more serious cases (eg. murder, rape etc.)
- **600,000 Laptop lost annually** and 97% never recovered.
- Current alarm system is too expensive with costly installation work (eg. Wall drilling, wiring etc.). **RM 2000/ year** minimum cost of home security system
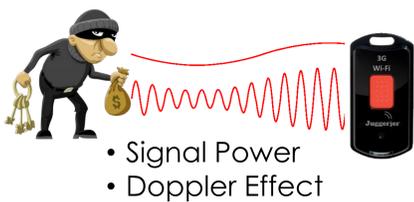- Current alarm system is **not portable**. Hence, not suitable for tenants and travellers.

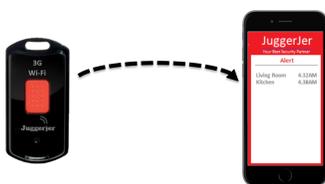## APPROACH

- **Alarm is triggered based on Wi-Fi signal pattern.**

1. Calibration

2. Detection

- Signal Power
- Doppler Effect

3. Notify

BENEFITS/ADVANTAGES

- Save money
- Portable
- Three second easy installation.
- Wider coverage area .
- Real time Monitoring through Smart Phone
- It does not require many devices / sensors to protect one space

Silver Medal Award (WiC 2015), Seoul, Korea

COMPETITORS

Details	Tattletale	ADT	Juggerjer
Portable	Yes	No	Yes
Easy Installation	No	No	Yes
Notification	SMS	SMS	Mobile apps
Detection Technology	Motion	Motion & magnetic Sensor	Wi-Fi Signal
Coverage	180°	180°	360°
Minimum price (RM)	1756.00	1099.00	170.00*

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PROSPERING THROUGH INNOVATION