Group 5

MEETING AGENDA

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1	Meeting Time: 11:00 AM	Location: AQ, SFU Burnaby	Date: 2019/05/21	
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Meeting called by	Jeffery
Kind of Meeting	Topic Decision
Facilitator	Jerry
Note Taker	Keith
Time Management	N/A
Attendees:	Keith, Scott, Ryne, Jeffery, Jerry

Topics

Time	Discussion Topic	Presenter	Deadline
11:00 AM	Methods on documentation (5 min)	All	
11:05 AM	System Architecture (1h 15 min)	All	
12:20 PM	Integral Group Meeting (40 min)	All	
1:00 PM	Final Thoughts (5 min)	All	

Notes: Test with Latex documentation on Requirements document

MEETING MINUTES

Agenda Item: Documentation methods, System Architecture, Integral Group Meeting

Presenter: All Discussion:

- 1. Introduction
- 2. LaTex Discussion:
 - a. Agreed to test LaTex
 - b. Research for LaTex document processing software with live previewing
- 3. System Architecture (1st Idea)
 - a. Objective: To provide more accurate victim location & number estimation to first responders
 - b. Use Triangulation and/or Trilateration
 - c. Decawave chip contains transmitter/receiver/antenna
 - i. OTA: BLE (Bluetooth Low Energy) (2nd Choice)
 - 1. RSSI Licensed
 - ii. UWB (1st Choice)
 - 1. TOF (Time Of Flight)
 - 2. Higher power output
 - 3. Lower power consumption
 - iii. Uses UDP
 - d. Cellular network (Last choice)
 - e. Requires 3 hubs for triangulation/trilateration
 - i. Server
 - ii. Wireless communication/Battery-powered
- 4. System Architecture (2nd idea)
 - a. Objective: To locate victims on-the-fly when first responders go into the building
 - b. A device that contains (hub + server + display)
- 5. Integral Group Meeting Discussion
 - a. Mainly ML implementation; Barely physical implementation
 - b. Agreed to go to meeting
 - c. Likely to reject offer
- 6. Determine to use Apple macbook for packet sniffing

Actions for Next Meeting (Thurs May 23):

- a. Confirmed to focus on System Architecture (1st idea)
- b. Go to workshops on Thursday
- c. Buy NRF24L01 chips for testing purposes(Jerry)
- d. Buy 2x decawave module chips (Ryne)
- e. Research more on Decawave/UWB chips