

Group 5

MEETING AGENDA

Meeting Time:	Location: SFU, Burnaby	Date: 2019/06/04
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Meeting called by	Jerry
Kind of Meeting	Progress review
Facilitator	Jeff
Note Taker	Jeff
Time Management	Jerry
Attendees:	Keith, Scott, Ryne, Jeffery, Jerry

Topics

Time	Discussion Topic	Presenter	Deadline
11:30 AM	Catch-up	All	
11:45 AM	Wifi Bluetooth Chip implementation	Jerry	Thursday 06/06
12:15 PM	System Architecture change discussion	All	
1:00 PM	Progress Meeting overview	All	
1:15 PM	Last Thoughts	All	

Notes:

MEETING MINUTES

Agenda(2hrs):

1. Introduction - Buy some ESP32
2. System Discussion
 - a. Use ESP32 BLE+Wifi modules
 - i. \$60 for 4 chips on amazon
 - ii. End of this week receive the chips
 - iii. If this is really good at tracking, then use this instead for Prototype/Final
 - iv. Silicon Labs website: possible 500m range
 1. 1ua idle and 10ma powered on
 - v. Use RSSI to locate
 - b. UWB chips
 - i. If we get UWB chips; = \$600
 - ii. UWB is solder ourselves, not plug in
 - iii. ~1 month to receive UWB chips
 - c. nr240L wifi chips
 - i. Require arduino to run at higher clock speed
 - ii. ToF readings are unreliable and do not change
 - d. Ultrasonic sensor (PoC last resort)
 - i. Use sensor to locate RSSI for tracking location
 - ii.
3. Deadlines
 - a. This week
 - i. Progress meeting on Thursday 11am
 - ii. Waiting on bluetooth chips to arrive
 1. If arrive Weds, testing on Thurs
 2. If arrive Thurs, testing on Friday (Jerry unavailable)
 - b. Next week
 - i. Decide on ordering UWB chips
 - ii. Testing on BLE and wifi chips
4. Conclusions