

## Group 5

### MEETING AGENDA

Meeting Time: 11:30 AM	Location: SFU, Burnaby	Date: 2019/05/28
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Meeting called by	Jerry
Kind of Meeting	Requirement Review
Facilitator	Jerry
Note Taker	Jeffery
Time Management	N/A
Attendees:	Keith, Scott, Ryne, Jeffery, Jerry

### Topics

Time	Discussion Topic	Presenter	Deadline
11:30 AM	Intro/ Catch up		
11:35	System Architecture		
12:10	Requirements Discussion		
12:45	Progress Meeting Discussion		
1:05	Company Logo		
1:10	Outing		
1:15	Last Thoughts		
1:20	Meeting End		

Notes:

# MEETING MINUTES

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## Agenda (2h)

1. Intro - (5mins)
  1. Reminders
    1. Next weds 10x 2.4Ghz chips arrives (**Jerry to bring**)
    2. Arduino for prototyping + M to F jumper connectors (**Ryne/Keith/Jerry to bring**)
    3. Raspberry Pi 2B (**Jeff/Scott to Bring**)
    4. **Thursday 2:30 PM May 30th meetup** for chip testing Lab 01 (**All**)
    5. Complete personal Engineering Journal for meeting next week (**All**)
2. System Architecture (35min)
  1. Same implementation but different scope (**Possible objective**)
    1. Tracking first responders to the building
    2. No ambiguity if the person carries the ID tag
    3. Can use Thermal map using UWB
  2. PoC
    1. Using 2.4ghz to use trilateration and optimization algorithms
    2. nRF24L01 2.4ghz wifi chips
    3. 4 adruinos
    4. 1 raspberry pis
  3. Prototype
    1. 4 UWB - 3~6ghz
    2. 4 adruino (1 mini pro); Manual ID switch
    3. 1 raspberry pi UI - Web App
  4. Final Project
    1. 4 UWB - 4 adruinos
    2. RF harvester circuit switch
    3. 1 raspberry pi UI - Web app
3. Requirements Discussion (35min)
  1. LaTeX (5min)
  2. Requirements (**All**)
    1. Aim to 90 reqs
    2. Sustainability
    3. Safety
  3. Diagrams Required
    1. System Block Diagram (**Jerry to upload**)
      1. PoC
      2. Prototype
      3. Final
      4. RF harvester circuit diagram (**Ryne to upload**)
        - a. Prototype/Final
    2. Software Block Diagram (**Scott to upload**)
      1. PoC
      2. Prototype/Final
4. Progress Report Meeting (20min)
  1. Only 10 mins presentation
  2. Determine what is relevant for now
5. Determine Company Logo - (10mins)
  1. Akriveia
    1. Indoor location rescue system
    2. TRIWAVE Akriveia indoor locating rescue system
6. Outing (5 mins)
  1. Loughheed for dinner together on Thurs.
7. Last Thoughts - (5mins)

## Summary (To Do)

1. Sys requirements - rwatters

## Progress Review 1:

1. Intro/Background - Ryne
2. Persuasion - Jerry
3. Outline market - Scott
4. Progress - Jerry
5. Remediation/Risk - Keith
6. Summary - Jeff
7. Questions (**ALL**) - Prepare possible answers to questions