Minutes:

---

11 March 2025 :

Attendees: Ryan Farrell , Vivek Chauhan
Main Deadline up-coming: Literature Review (4th April)

Topics:

- Discussed Planning Tools for further logistics, to allow the planning of our Project progress to deadlines.
- Approach to reading research papers and collecting lists of papers. (Aim for ~30 ish Papers)
- Making a Gantt chart on Doc/google sheets
- Questions List on Slack Canvas
- Read over the modules for Literature Review by Friday 14th April

---

14 March 2025

Attendees: Ryan Farrell , Vivek Chauhan, Talia Xu
Supervisor meeting

Topics:

- Wireless comms -> active (wifi, BLE, LiFi), passive (rfid, ambient backscattering) splits into rf/alb applications
- **RF**: Passive rf backscattering. What technology? Application? Fundamental constraints?
- **ALB**: Marco Zuniga, qing wang, Chen Ren Xu, Domenicu . G, Wen Hu (look at papers from them)
- **LIFI**: Harald haas
- Wifi backscattering: Shyam Gollakota
- 1 paper on Lifi (question, what is advantage of ALB)
- 10 papers abstract, 3-5 more depth (minimum)
- 1 survey each for rf and alb -> published after 2023

---

18 March 2025

Attendees: Ryan Farrell , Vivek Chauhan
Main Deadline up-coming: Literature Review (4th April)

Topics:

- Discussed each member progress between last team meeting
- Set up next meeting to work through project plan and scope (Objectives & aims) -> 20/3/25 4pm to ~6:30pm

---

21 March 2025

Attendees: Ryan Farrell , Vivek Chauhan, Talia Xu
Supervisor meeting

- Don't worry about perfect draft for lit review, just use to come up with research objectives
- Research report different to engineering report
- Reliability of energy source - i.e. during cloudy/rainy days etc, and under variable lighting conditions (sun position in sky, clouds etc)
- Sun alignment very important (very directional)
    - Location of sun
        - Tracking -> low power, minimum moving parts/power consumption (algorithm, motor/electronic, weight optical etc., power budget, battery, mixed system etc
        - And multi Nodal transmission setup

---

14 April 2025

Attendees: Ryan Farrell, Vivek Chauhan, Talia Xu
Supervisor Meeting

- Discussion focused on **component and part selection** for each subsystem.

- Decision to **finalize and send off part orders** for the initial hardware setup.

- Ensured all selections aligned with system requirements and project objectives.

---

16 May 2025

Attendees: Ryan Farrell, Vivek Chauhan, Talia Xu
Supervisor Meeting

- Reviewed progress on the **initial circuit design report**.

- Discussed how each team member would **approach their subsystem design** within the overall architecture.

- Emphasis on ensuring subsystem integration and defining **clear subsystem boundaries** for testing.

---

13 June 2025

Attendees: Ryan Farrell, Vivek Chauhan *(online)*, Talia Xu
Supervisor Meeting

- Conducted an **online discussion** regarding tasks for the **semester break**.

- Vivek to focus on **motor subsystem testing and setup** once components arrive.

- Ryan to continue **developing transmission architecture** for system communication.

- Agreed to maintain regular updates through shared logs or messages

---

25 July 2025

Attendees: Ryan Farrell, Vivek Chauhan, Talia Xu
Supervisor Meeting

- Short follow-up meeting discussing the **technical report** structure.
- Clarified approach for **writing and presenting subsystem designs**.
- Confirmed scope and expectations for the **final project phase**.

---

8 August 2025

Attendees: Ryan Farrell, Vivek Chauhan, Talia Xu
Supervisor Meeting

- Discussion centered on **part delays** and their impact on testing timelines.
- Agreed on **adjusted milestones** to accommodate late deliveries.
- Re-evaluated fallback testing plan if further delays occurred.

---

22 August 2025

Attendees: Ryan Farrell, Vivek Chauhan, Talia Xu
Supervisor Meeting

- Acknowledged upcoming **Systems Week** workload and limited availability.
- Discussed strategies for **managing project progress** during this period.
- Planned to resume testing and integration work immediately after Systems Week.

---

5 September 2025

Attendees: Ryan Farrell, Vivek Chauhan, Talia Xu
Supervisor Meeting

- Reviewed overall project progress and testing outcomes.
- Ryan reported progress on **transmission system setup**.
- Vivek updated on **azimuth motor subsystem**, including **LDR and photodiode integration**.
- Supervisor confirmed both subsystems were on track for the upcoming report stage.

Post-September 2025

Attendees: Vivek Chauhan and Ryan Farrell
Team Meetings (Peer Progress Updates)

- Continued independent team meetings without supervisor involvement.
- Focused on **mutual progress updates**, troubleshooting subsystem issues, and synchronizing tasks across **motor control and transmission** domains.