

**Title:** VTOL Project

**Date/Time:** February 10, 2026 (7:30 p.m.m - 10:00 p..m)

**Attendees:** Everyone except Roshan

**Phase:** Phase 1 - Mechanical & Electrical Design of VTOL

## Important:

Design pivoted from original 3 Bearing Swivel Module to a 2 Fan Tail Sitter Drone described in the following video: <https://www.youtube.com/watch?v=CvPTtBKq3NU>

### A) Current Build Status

#### Mechanical

In progress: - Order of parts (Pivot Design of VTOL to that described in link: <https://www.youtube.com/watch?v=CvPTtBKq3NU>, Initial Drawings & CAD Design

Blocked: - None

#### Electronics

In progress: - Order Parts, Electrical Schematic Diagram of wiring

Blocked:

#### Software/Controls

In progress: - Simulink System design, for control, electrical power simulation, thrust visualization, altitude, etc. For reference, see the end of this video <https://www.youtube.com/watch?v=CvPTtBKq3NU>:

Also: Learning objective of reading through ArduPilot documentation so we understand those fundamentals, also understand PWM, I2C, SPI, UART, and CAN, Protocols

### B) Decision Log

Decision #	Topic	Options Considered	Decision	Owner	Deadline
Decision - 1	Design	3 Bearing Swivel Module and 2 Fan Tail Sitter Drone	2 Fan Tail Sitter Drone	Team	N/A
Decision - 2	Budget	\$1000, \$1500	\$1500 Budget	Arsh	N/A

### C) Build / Assembly / Design Work

#### Build Plan for Today :

- Assemble: N/A
- Fit-check: N/A
- Test: N/A
- Update CAD live: In Progress
- Update wiring diagram live: In Progress

#### Artifacts created/updated:

- CAD: In Progress
- Diagram: In Progress
- Test doc: N/A
- Photos/video: N/A

### D) Tasks for Next Session

Task	Owner	Deliverable (link/file)	Acceptance Criteria ("done when...")	Due
Design abstract an abstract electrical system block diagram	Jeff			Next Meeting
Initial Drawings and CAD	Pep & Roshan			Continuous Process
Simulink Simulation and System Design	Ayaam & Vivienne			Continuous Process

## **F) Next Meeting**

**Next meeting objective:**

**Required prep (must be done before next meeting):**

- - Abstract Electrical Schematic is Done
- - Progress made on initial Designs/CAD
- - Progress made on Simulink Simulation and System Design