

■ Cornell Physical Intelligence — First Club Meeting

Agenda

Date: [Insert Date]

Time: [Insert Time]

Location: [Insert Room]

Duration: ~1 hour 30 minutes

1. Welcome & Introductions (10 min)

- Icebreaker: Name, major/year, and what interests you about robotics or “physical intelligence.”
- Overview of the club’s mission: merging mechanical design, materials, and embedded intelligence into adaptive machines.

2. Vision & Project Overview (15 min)

- Quadcopter Drone — Frame as a study in embodied flight intelligence — adaptive stability, structural feedback, and onboard control learning.
- Jet Engine Prototype — Emphasize thermodynamic feedback and design optimization as “physical cognition.” Future research aim: autonomous control in extreme or low-oxygen environments.

3. Large-Scale Planning & Subteam Setup (15 min)

- Define semester goals: prototype functional quadcopter, start CFD modeling for small jet engine, and prepare for spring showcase.
- Subteams: Flight Systems, Propulsion & Thermofluids, Structures & Materials, Funding/Business/Outreach.

4. Funding & Logistics (25 min)

- University Sources: Cornell Engineering Project Team Grant, SAFC Funding Cycle, ELI & CoLab Innovation Grants, Cornell Atkinson Sustainability Innovation.
- Corporate/External: DJI, Skydio, T-Motor, Autodesk, or Digikey partnership requests; local Ithaca company outreach.
- Fundraising Ideas: Intelligent Robotics Showcase event, Engineering Quad Day booth, social media sponsorships.
- Immediate To-Dos: form funding subteam, draft sponsorship letter, create shared Google Drive workspace.

5. Next Steps & Club Operations (10 min)

- Set recurring meeting schedule.
- Define documentation standards (Notion or Drive folders).

- Prepare visuals for funding proposals.

6. Member Presentations (15 min)

- Freshmen and new members present prototypes and early tests.
- Focus: how their design connects to “physical intelligence.”

7. Closing & Open Discussion (5 min)

- Announcements, Q&A;, and collaboration ideas with other clubs/labs.
- Group photo.