(c) wars of the project.
(i) Big commercial complexed 4 high rise buildings requiring (6) Problems solved. (ii) Reduces the east involved in all teaking buildings (iii) Some time involved in all teaks ev) Higher precision due to automation. (i) Redu Greatly reduces the rick of accident minited in cleaning high rice buildings. effectively oben glass surfaces and wall if high rise buildings. Also employs this for solar panels. 1. In simple words, describe what you are going to build in your project, what its purpose is, and how it will function. Be as detailed as Use your notebooks for discussions and rough work. Fill out this sheet after working individually and discussing within your team. Project title: wall plan pane cleaning drone. Group code: MOD-13_ Student names: Joy Mekty, Adit Savatava, Angam spok taknan Baran Kasij Kalifan Draw a pencil sketch of what your project will look like at the end of the course, for final demo. possible, covering all the major aspects of your project. c. Who will use your project, and in what context? What is the main goal of your project? What problem does it solve, and how?

(ii) with entable modifications, this project can also be used

as a tive-figuring drone.

(ii) Companies who provide each recuires.

frequent dearing.

Draw a block diagram of your project. Create a visual representation showing the key components or subsystems of your project. For each block in the diagram, briefly explain its main function and how it fits into the overall system.
 What are the main absystems or modules of your project?
 How do they interact with each other?



Write down details for these blocks: What are the key performance metrics for each block (e.g., power, size, speed)? What trade-offs are you considering in your design choices? Are there any constraints or limitations for each block?

(viii)	(vii)	(vi)	3	(iv)	(m.	(n	Ο,
(viii) Autopilat	Cleaning Mechanism	Communication	(v) Navigation	Power Pistribution	(III) Sersor Module IMV, GPS	(ii) Estimator	Block (1) Controller
PX4 autopicat on Pixhawk controller unit	(vii) Cleaning spray / rollers for Mechanism whing	(vi) Communication Telemetry, Radio	manual vs	(iv) Power prestribution ESC, PDB, Botteries (LiPo) Size (weight) us capacity	IMU, GPS	Extended Kalman Filter for bose extimation	Key specifications of this block PX4 dyfault control module
3		cost vs Range	1	Size (weight) us capacity	Senson accuracy	Trade of computation complexity	PX4 default control module Capcaded PID insulfed for pack compensation

4. What are the unknowns or uncertainties in this project? Identify aspects of your project that you are uncertain about or that require further research. This may include areas where you know what you need to do but are unsure how to approach it.

Technical Challenges based on bours and payload specs
(i) selecting autoritis based on bours and payload specs
(ii) choice of controller to ensure force compensation (iii) High altitude pumping mechanism (iv) Ensuring communication over large distances

(1) Accurate GPS data (1) Butlet for water suffly other things to consider from now until Milestone I deadline: Assumptions

- 5. Roles and Responsibilities: How will the work be divided among team members? Assign specific tasks and responsibilities to each team member. Be clear about who is responsible for each part of the project.
- Who will work on which blocks or subsystems?
- How will the team communicate and coordinate to ensure everyone is on track? What are the deadlines for each task?
- Next Steps: What is your plan for the next phase of the project? Oulline what needs to be done in the short-term to move forward
- What are the immediate next tasks or priorities?
- What resources or materials do you need to proceed? Are there any dependencies between tasks? How will you handle these interdependencies?
- Feedback and Collaboration: How will you gather feedback and collaborate during the project? Describe how your team plans to share progress, give and receive feedback, and collaborate throughout the course of the project.
- How often will you check in with your team members? Will you conduct regular brainstorming or review sessions?