

Exercise 6

Choose a specific drone model (e.g., DJI Mavic Air 2, Parrot Anafi, etc.) and research its sensor suite. Answer the following questions:

1. What type of camera sensor is used in the drone (e.g., CMOS, CCD)?
2. What is the camera's resolution and zoom capability?
3. Does the drone have an IMU? If so, what are its components and how does it contribute to drone stability?
4. Does the drone have a GPS receiver? If so, what type (e.g., GLONASS, Galileo)?
5. Are there any additional sensors on board (e.g., thermal sensor, laser rangefinder)? If so, what are their functions?

Deliverable:

Write a short report (2-3 pages) detailing your findings, including:

- A brief overview of the drone model and its intended use case (e.g., aerial photography, surveying, etc.)
- A description of the camera sensor and its features
- An explanation of the IMU's role in drone stability
- A list of additional sensors on board, if any, and their functions