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| **MoCap** | |
| *Realtime Low-cost Motion Capture System (MoCap)* | |
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| **Description:** | A low-cost motion capture system that can track and record spatial movements of multiple objects using IR-based markers and up to 4 cameras. The output data rate is up to 40Hz at 1080p and 70Hz at 720p. Pose estimation accuracy is up to ±0.5 mm for stationary targets and ±2.5 mm for tracking dynamic objects such as quadrotors. |
| **Tech Stack:** | Computer Vision, Control Systems, ROS2, Python, CAD Modelling |
| **Hardware:** | ESP32 microcontroller, BLDC Motors, ICM-20948 IMU |
| **Latest Update:** |  |
| **Future Work:** |  |
| **Project Link:** | [eCube Drive Link](https://tinyurl.com/e-cube) |