

A small blue and white UAV drone is positioned on a grassy field. In the foreground, a portion of a blue remote control is visible, showing a joystick and various buttons. The background is a blurred outdoor setting with some metal legs visible.

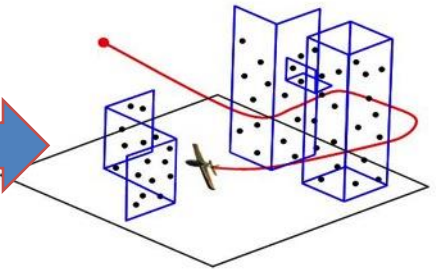
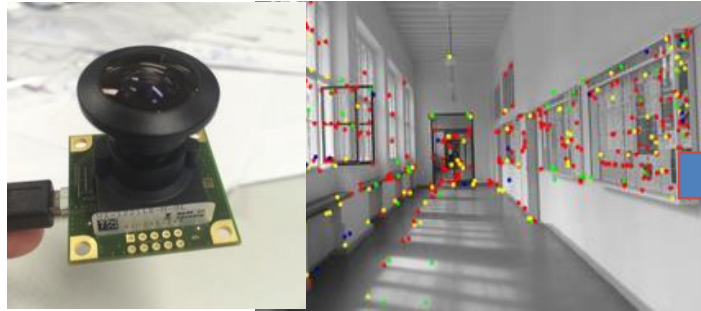
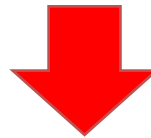
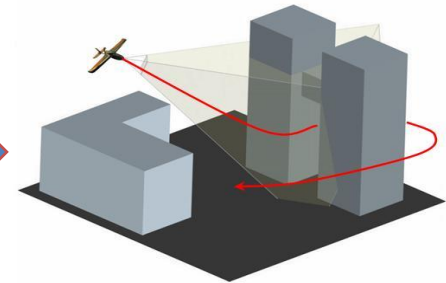
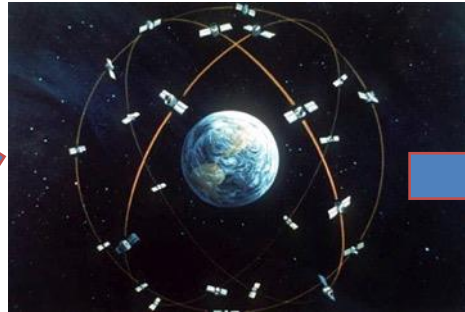
Visual Control of Small UAV in GPS-denied Environments

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Problem Statement





Current Stage



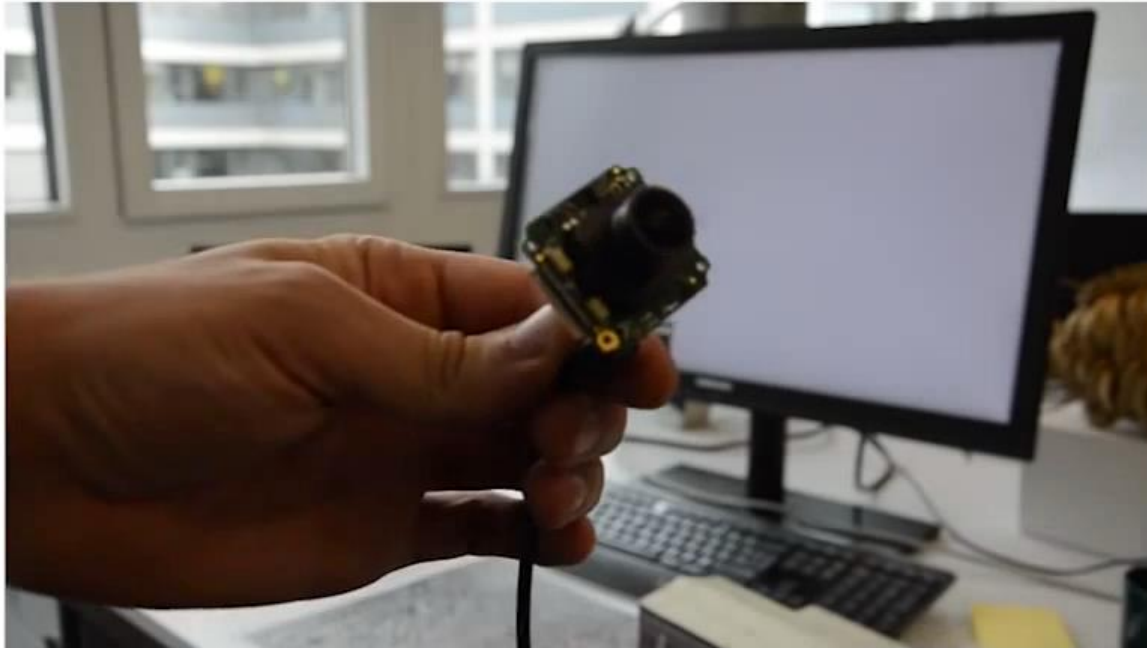
Velocity Control with Optical Flow Camera & Ultrasonic Sensor





Next Stage

Position Control with Monocular SLAM



Motion estimation and mapping
with a single camera