

Drone project with QuadSAT

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The project we have chosen to work on, is the project presented by QuadSAT in class. The idea for the project is: (Copied from the QuadSAT PowerPoint):

Cloud-based tool for visualizing rosbag data on the go:

- GPS bag data, visualized in 3D on a map, in order to evidence and recognize the trajectory that the drone was flying during the recording;
- Gimbal angles, visualized in a simplified form (a vector) that uses the angles and shows the pointing at each GPS coordinate (can also be only pitch and yaw);
- Ideally, through selection and deselection we add or remove multiple trajectories to the map.
- Suggestions for better data visualization of the contents of a rosbag.

The description above, maybe be a little too much work for the group size, but it will serve as a list of things that can done, if times allows it.

The partner for this project will be QuadSAT, which will provide the needed data and some tools.

The focus on the project, will be on the visualization and simulation of the ROS data.

The topics which we think will be used is primary; ROS, Simulation, Communication and Drone vision. Combined with tools from QuadSAT.

The suggested supervisor would probably be: Lea or Golizheh. + QuadSAT.