Bachelor Thesis
Registering surface images in real time to a map areas

Ground images taken from a UAV are registered to produce a 2D map of the area. During operation images and the pose of the system are sent to the ground station. In a recombination step a map overlay is generated.

Tasks
• Theoretical research in image registration
• Coordinate frames of reference
• Development of a camera stabilization solution
• Image processing
• System verification and flight tests

Good to know
Image processing and feature detection, C++, inertial system

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