

Autonomous Landing on a Moving Platform

Midterm Presentation

Gero Leinemann

Felix Monninger

Roman Tikhonov

Challenges

- Find the platform (marker-based)
- Approach the platform and land
- Detect if landing is successful

What is done

- State-based project structure (Boost lib)
- Controls bound to laptop keyboard
- Searching the platform using joystick (manual)
- EKF and PID for approaching (automated)

Plans

- Automated platform search
- Prediction of platform movement
- Check of successful landing

Thanks!