



## Kolloquium zur Bachelorarbeit

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### **„Integrating iNAV into the Dronecode Ecosystem: A MAVLink to MSP Connector“**

One universal aspect of drone related work is the necessity of communication. Almost every possible drone mission contains cooperation between either multiple drones or drones and other entities. Micro Air Vehicle Link (MAVLink) is a protocol designed for drone communication.

Being the most quoted solution in this domain all among academia resulted in wide adoption of MAVLink. This applies to Ground Control Stations like Apmplanner 2 and QGroundControl, the PX4 and ArduPilot Flight Control (FC) firmware and simulators like Gazebo. Despite that, a whole family of FC firmware does not support MAVLink: MultiWii and its forks, e.g. Betaflight and iNAV. This thesis will introduce an attempt at creating a translation layer which masquerades an iNAV FC as a MAVLink capable FC. Using that the choice of FC firmware (and hardware) is enlarged significantly - resulting in an increased competition in the FC market.

Freitag, 20.12.2019, 14:00 Uhr s.t.,  
Seminarraum 105 (T1), D5, Albrecht-v-Groddeck-Str. 7