Implementation of a Formation Controller on CubeSat Flight Software (Master Thesis/ Practical)

NetSat is a satellite formation flying mission currently under development. The aim of this mission is to demonstrate autonomous formation flying of 4 CubeSats. A formation controller is currently under development and should be transferred to flight software.

**Tasks**
- Understanding of existing formation controller (Matlab / Java)
- Transfer/ implementation in flight software (Microcontroller, C)
- Hardware-in-the-Loop testing and verification

**Required Previous Knowledge**
Background in control theory, programming skills (C, Matlab)

**Language**
German or English

**Contact**
M.Sc. Julian Scharnagl: julian.scharnagl@telematik-zentrum.de