Implementation of a Earth Horizon Sensing Algorithm for CubeSat Flight Software (Master Thesis/ Practical)

For upcoming Earth observation missions, we are looking for alternative ways to measure satellite attitude with respect to Earth. An Earth Horizon sensor seems feasible. Therefore, in this thesis/practical a student should

Tasks
- Research applicable Earth horizon sensing algorithms
- Implement a selected algorithm in flight software (Microcontroller, C)
- Test and verify using a Hardware-in-the-Loop set-up

Required Previous Knowledge
Background in image processing, programming skills (C)

Language
German or English

Contact via Mail or Video Chat
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