



# 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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