

# Development and Test of a Prototype for a quadrant photodiode based Sun Sensor

## Master Thesis

For missions with a Star Sensor or low attitude control requirements, a sun sensor with low accuracy (about  $0.5^\circ$ ) is sufficient. Available options to buy are quite expensive and do not work with our panel design. Therefore, we would like to have our own solution based on a quadrant photodiode.

## Task Description

- Research of existing sun sensors working principle
- Design a quadrant photodiode based sun sensor (including electronics and mechanics)
- Develop, manufacture and test a prototype

## Preliminary Knowledge

- Experience in Mechanical and Electronics Design
- Embedded Programming in C

## Contact

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