



Bachelor Thesis

Autonomous Light-Sensor for Aerial Multispectral Camera System

About Ocell:

Ocell offers innovative earth observation solutions for manned and unmanned aerial vehicles. We invented a new approach for collecting aerial data with higher resolutions than satellites and for bigger areas than what drones could deliver. Ocell uses various machine learning approaches to extract valuable information from these multi-dimensional data sets.

What we want to achieve with you:

With our pilot network we generate 5-band multispectral images of several ten thousand hectares of Bavarian forests. Our planes fly under varying lighting conditions due to different clouds or sun angles. In order to keep the data comparable, the varying lighting conditions need to be tracked live. In addition to our multispectral camera system, we plan to build an autonomous sensor module to track the environmental conditions.

What we offer:

- Early involvement in a startup
- Self-responsible work style
- Access to prototyping materials
- Guidance and support

What we expect:

- Motivation and technical adeptness
- Experience with optical systems
- Knowledge about electronics and Linux
- Scientific thinking

If you are interested please contact us: info@ocell.aero

Gefördert durch:

