



Praxissemester

Radiometric Calibration of a 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. In order to keep the data comparable over different times of recording with varying lightning conditions, a radiometric calibration of the imaging sensors has to be performed and optimized. We plan to create a light-shielding environment including a surface with a known reflectance and a light source with a known spectrum to measure the sensitivity of our optical system including camera, lens and filters.

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
- Practical experience with optical systems
- Knowledge about electronics
- Scientific thinking

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

Gefördert durch:

