

Postgraduate research topic opportunity

Satellite/Space Rubble Tracking System

A mechanical structure has been designed and developed for a space rubble / satellite tracking system. Further research and development is required with the development of:

- Accurate feedback control and tracking by means of radio signals
- Accurate feedback control and tracking by means of image processing
- Implementation of software for the control station
- Software development for remote system control by means of a cellphone app or computer IP application
- Control the actuation system with the required electronic integration.
- Slight mechanical alterations might be required to optimize the system and integration.

The successful applicant will be able to apply for the college scholarship, should they not have received any other scholarship. The following requirements are needed:

- Performance of your final year project must be above the norm.
- You need to be self-motivated, efficient and meet the required deadlines.
- There are certain expectations required from you to allow you to guarantee the completion of your degree. Further details will be sent to you regarding this.

If you are interested in applying, you are required to submit:

- Your CV and academic record
- A description of your final year project and your responsibilities
- Who was your final year project supervisor?

All submissions or further details about the research topic can be sent to Professor Riaan Stopforth at Stopforth@ukzn.ac.za.