OLYMPUS ROVER TRIALS 2022-23

PRELIMINARY DESIGN REVIEW

<INSERT TEAM NAME>

OLYMPUS ROVER TRIALS

UKSEDS
22 | 23

UKSEDS
COMPETITIONS

SUPPORTED BY
AIRBUS

UK RI
Science and Technology Facilities Council
RAL Space

Guidance

The Preliminary Design Review document should be no longer than 10 pages including images and diagrams. You can use this template as a guide, but feel free to change the structure if you think it would help. For more details on the content expected in the PDR, check out section E.1 of the Olympus Rover Trials Rules and Requirements document, and the referenced ECSS standard. This document will be reviewed by industry systems engineers, who will provide one A4 page of paper of feedback on your design concept, documentation and project management arrangement.

The cover page and headers have been created as sketches to prevent (or at least reduce) formatting issues. To add your team/university names, click on the header or cover page and click edit at the bottom of the image. This will take you into the sketch editor where you will be able to alter the text. Please export your document as a Word document (.docx) before converting to a PDF, since converting directly to PDF reduces image quality.

Please contact rovers@ukseds.org if you have any further questions.

The deadline for the submission of this PDR is 10th January 2023.

OLYMPUS ROVER TRIALS

2022 – 2023

‹Team Name›

‹Team Logo›

Issued by (Project Lead): ‹Project Lead Name›
University: ‹University Name›

UKSEDS Olympus Rover Trials 2022-23

Preliminary Design Review

Contents

1   Introduction

Use this section to introduce your project, team and concept. Mission patches are welcomed! Feel free to include further information in the appendices to avoid exceeding the page limit.

1.1   Mission Statement

The mission statement is a short statement that describes the overall goal of the team.

2   Project Management

2.1   Assigned Roles and Team Roster

Include a table of team members and their assigned roles.

Name	Role	Year/Course	Email

2.2   Preliminary Schedule

Include your proposed schedule for the project, from inception to competition date. Include a work breakdown structure and a proposed test plan.

2.3   Preliminary Budget

Include your proposed budget for the project, covering the rough build costs of the satellite.

2.4   Project Risks and Mitigations

Identify the major risks associated with your project and satellite design, and how you expect to manage these throughout the development process.

2.5   Project Plan

Teams will be required to produce a Gantt chart of the project, including a critical path analysis. This will be essential in risk identification and management. Be sure to add slack to your Gantt chart to ensure each task can be completed.

3   Preliminary Concept

This is where you can detail your preliminary mission and satellite design. This will be built on through the year so it does not need a high-level of detail at this stage.

3.1   Mechanical design

3.1.1   Requirements

3.1.2   Trade-Off

3.1.3   Selection

3.2   Electrical design

3.2.1   Requirements

3.2.2   Trade-Off

3.2.3   Selection

4   Design Baseline

Present your baseline design concept. Describe how your concept addresses the requirements. Include images and references where necessary.

5   Acknowledgements

Use this section to recognise anyone who assisted with or contributed to the project, but was not part of the team.

6   References

No particular reference style is preferred. Include citations in the text.

Appendices

Any supplementary material, which is not essential to the project, but will provide a more comprehensive overview of the project, can be included as appendices.