

Project proposal

Title: Moon Rover Design
 Supervisor: ECAL
 Timeframe: Spring 2021

EPFL Xplore is an interdisciplinary project whose aim is to design and develop a Rover to participate in two international competitions: The University Rover Challenge and the European Rover Challenge. Our long-term goal is to promote space robotics and develop further advanced vehicles to be sent to regions hostile to humans (in space or on Earth).

Project description

Problematic

The student will need to design a concept of what a lunar rover could look like as part of a future base on the Moon.

The goal is to build a 3D model of such a rover and to stage it in a lunar hangar. This model could later be used for further promotional photographs picturing it in operation. This rover needs to show our vision of space robotics and to inspire people to join in and participate, whether it is students or companies.



<https://www.futura-sciences.com/sciences/actualites/utilisation-espace-lunar-quattro-voiture-quadri-va-envoyer-lune-65773/>

Requirements

See: <https://docs.google.com/spreadsheets/d/1r45gGfDNZZR4V1autQZg4G2UjIXI0rEIIANguuTa7yw/edit?usp=sharing>

A meeting will be organized with the student at the beginning of the semester to clarify some points and discuss the requirements.

If you have any questions before that, don't hesitate to contact us.

Means

Cinema 4D (formation sessions can be organized with Pr. Claudio Leonardi)

Catia (if CAO is used)

Solidworks (if CAO is used)

Fusion (If CAO is used)

See with ECAL for design software.

Contact

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