

Project proposal

Title:	A curious Rover
Supervisor:	George ADAMI (VITA)
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.

Project description

Problematic

The rover has to move in an unknown environment. Because the sensors we use can't yield a complete elevation map of this environment, many parts of this map are yet to be discovered, which becomes a immense challenge for the path planner.

In this project you will optimize our current path planner to take into consideration such unknown areas in the map.

Note : You should not assume that the coordinates of the target positions are known (AR-tag in the competition). This is the interesting part of the project and where the appropriate 'curiosity behavior' matters a lot.

Requirements

Reference documents

Contact

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