Final project

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Final project

You are strongly encouraged to work in groups (3 students max)

Important dates

- April 23: Project start
- April 30: Project pitches (forum), deadline to get feedback on the general idea
- May 7: Half-way presentation (in class), feedback on approach+results before submission
- May 31: Final presentation (in class), submission of code and short report (3-4-5 pages)

Objective

- Find a *robotics* project that is interesting AND achievable in this time frame
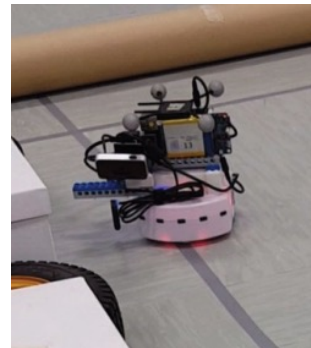
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What you can do

You can work with:
- simulations (Coppelia)
- real robots
- a combination of the two

Using the:
- MyT (only simulation)
- RM S1 (simulation + real robot)
- RM EP (simulation + real robot)
- a combination of the three

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What we suggest

Start in simulation with a **single** robot and try to achieve your goal in a **simple** scenario

From there, scale up with **stretch** goals, such as:

- More complex scenario
- More robots
- Real robots
- More difficult tasks

BE AWARE that working with real robots is difficult and time consuming

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Evaluation:

- We evaluate the quality of your work (and presentation), not the quality of your results!

Final notes:

- If you work in a group, you are expected to do more work.
  A three-person group should roughly do the work of 3 one-person projects.

- Real robots are limited and time-consuming to work with.
  Consider them as a final bonus milestone for your project and not the main focus.

Detailed rules: https://www.icorsi.ch/mod/page/view.php?id=1040476

Project suggestions

- LED communication and interaction between robots

- Aruco markers usage and identification

- Object interaction

- Line/street following

- Visual perception

- Sensory environmental understanding

- SLAM

Project suggestions: https://www.icorsi.ch/mod/page/view.php?id=1040479

Have fun!

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