

Team Information

Picture of vehicle:



Name of vehicle:

MX4

Picture of team leader:



Name of team leader:

PROUST Joffrey

Team Name:

ISTY

Team E-mail:

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Website:

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Location:

Mantes-la-Ville (France)

Institution/Company:

ISTY (Yvelines Science and Technology Institute)

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Team Information

Team Description: The University of Versailles team is composed of fifteen students preparing a degree of mechatronic engineering at the Yvelines Science and Technology Institute (ISTY). The ISTE depends on the University of Versailles-Saint-Quentin-en-Yvelines, located near Paris.

The school provides us materials and components, and sometimes different companies provide us material for free. We will participate to the trial with our UGV vehicle, called MX4 (Mantes eXplorer 4).

MX4 is based on a commercial kid quad for the mechanical structure. Our robots are entirely developed by students at school. The main goal of our robots is to help humans to do some tasks, like searching and rescuing people after natural disasters such as earthquakes. That is why we also participate to the worldwide Robocup Rescue.

Our robots are powered by batteries packs and are remotely controlled by WIFI, in a maximum range of 500 meters. Vehicles incorporate measurements from accelerometers, gyros and wheels speeds for pose estimation. While moving, the environment is perceived through a laser range finder, sonars, infrared thermal sensors and webcams. The control station is a laptop and all data are retrieved from the robots in real time.

Today, vehicles are always prototypes which are constantly evolving.

Sponsors:

ISTY	(www.isty.uvsq.fr)
UVSQ	(www.etu.uvsq.fr)
S2M	(www.s2m.fr)

Selection of scenario:

1. Approach
2. Camp Security