

# Team Information

Picture of the vehicle:



Name of the vehicle:

MX-3

Picture of the team leader:



Name of the team leader:

Pierre BLAZEVIC

Team Name:

RESCUE team

Team E-mail:

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Website:

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Location:

Mantes la Ville (France)

Institution/Company:

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Team Description: The RESCUE team is composed of students preparing a degree of mechatronic engineering at the Yvelines Science and Technology Institute (ISTY). We are under the leadership of Pierre BLAZEVIC, who is the director as well as a teacher of the ISTY. In this school, students and professors work together on different projects which include electronic, mechanic and computing sciences. We haven't had any sponsors up to

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now. The school provides us with material and components, and sometimes different companies provide us material for free.

Our vehicle is called MX-3 (Mantes eXplorer 3). The MX-3 is the third version of the vehicle “Mantes Explorer”, it is entirely designed by students at school and the goal of the robot is to search and rescue people after natural disasters such as earthquakes. That is why we also participate to the worldwide robocup Rescue. The robot is powered by a battery pack and based on a 2Ghz Intel CPU. The vehicle incorporates measurements from accelerometer, gyro and wheel speed for pose estimation. While moving, the environment is perceived through a laser range finder, sonars, infrared thermal sensors and webcams. The robot is remotely controlled by 2.4GHz or 5GHz Wifi, in a maximum range of 500 meters. The control station is a laptop and all data are retrieved from the robot in real time. MX-3 is controlled thanks to a joystick. The development of the MX-3 system began in September 2007. Today, the vehicle is a prototype which is constantly evolving.

Sponsors:

None

Selection of scenario:

Reconnaissance and surveillance \_X\_

Transport – Mule \_\_\_\_

Camp security \_ X\_

Autonomous navigation \_\_\_\_

Proof of citizenship:

A copy of team leader passport will do (will not be published)!