# **Vision Statement**

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**Introduction:**

In a world where autonomous robots occupy a central part of our life's work, both on the civilian level and at the military level, a reliable solution is needed for their control. Today, every autonomous robot has a specific role and purpose, when the quality of its software is essential to its success, since no one interferes in its decision making.

**Project goals and scope:**

The aim of the project is to develop a solution for navigation in autonomous vehicles (in a simulator or a real car), with an emphasis on the reliability of the autonomous software.

The project will feature the use of innovative hardware components, taught navigation, and mapping algorithms (for example - SLAM algorithm), an interface with sensors and an opening to a new world we were not yet familiar with.

In this project we will not focus on the hardware of the robot or the type of tasks it will be able to perform. but the main effort will be directed to programming the system to be installed in the "robot brain".