

Team Report

21 January 2023 / 10:00 AM

Members

Ami taha Farshbaf, Ata Dibazar, Ehsan Fakhrzadeh

Challenges

1. Controller circuit design
2. Identification of primary parts

The first day was dedicated to identifying the robot's components and ensuring the correctness of their operation. The initial parts included a router modem and 2 encoder gearboxes.

First, a motor was started by direct current to ensure its failure, and then it was connected to the Arduino board by the driver to determine the direction of movement and the number of revolutions per minute along with the encoder.

Then the second engine was started in the same way, but the stage of simultaneously starting two engines by the driver was not successful. According to the team, this may be due to the following:

- 1) Insufficient voltage supply by the driver to two motors
- 2) Software error
- 3) Mismatch of driver specifications with motors

The above items will be reviewed and included in the next report.

Note: The list of all the parts along with the data sheet has been uploaded inside the Github

Next Goals

- Control the robot with Bluetooth module