RoboCup 2021 WORLDWIDE

Team Description Paper (TDP) 2021 - Soccer league (Cover Page)

League Name:	RCJ Soccer open
Age Group:	Junior
Team Name:	mind benders
Team Website:	
Participants Name	Aisha Mohammad Ismail Alraeesi Rowdah Rashed Saeed Alshehhi Mareyha Ahmed Ali Ben Hilal Alnaqbi Suhaila Saeed Ali Mohamed Al Mansouri Naqbi
Mentor Name:	Emad mohammad ahmed aldababseh
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Date:	22/6/2021

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Team Description Paper

RoboCupJunior Soccer Open

Aisha Mohammad Ismail Alraeesi Rowdah Rashed Saeed Alshehhi Mareyha Ahmed Ali Ben Hilal Alnaqbi Suhaila Saeed Ali Mohamed Al Mansouri Naqbi mind benders, UAE ministry of Education, UAE

1. Abstract

The project revolves around two robots that are programmed as attacker and defender, the defender robot programmed to score a goal on the other team, and is not allowed to approach our team's area line, while the attacking robot is programmed to block the ball and to prevent the other team from entering the ogre. The two robots are programmed according to the pitch measurements so that they do not exceed these measurements.

a. Team Background

we are UAE soccer open team from United Arab Emirates . Our team are consisting of 4 members :

- Aisha Mohammad Ismail Alraeesi
- Rowdah Rashed Saeed Alshehhi
- Mareyha Ahmed Ali Ben Hilal Alnagbi
- Suhaila Saeed Ali Mohamed Al Mansouri Nagbi

We participated on the national competition for Robocup and it was our first participation in the robotics and those kind of competitions.

c. Team photo



e. Previous Robo Cup or other robotics experience

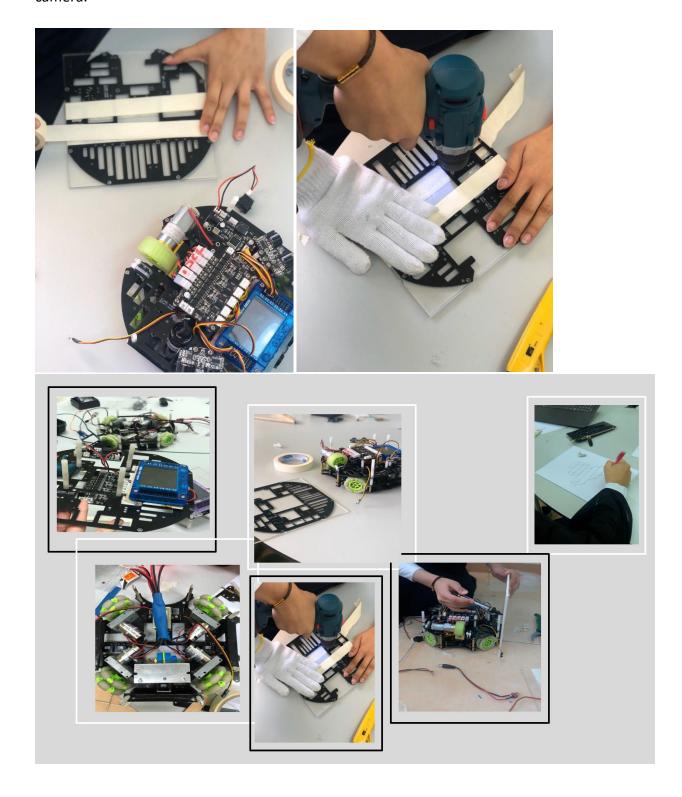
The team has no previous experience in the Robo Cup competitions except for the national competition in January 2020, we participated in national RoboCupJunior soccer open.

2. Strategy

Our goal was to build the robot using C language for programing also the best types of sensors and and the most accurate types of cameras, . Therefore, we chose Husky lens camera it's more accurate than pixy 2, so that it recognizes the color easily and can track the ball and its color over long distances and also in terms of programming it is fast in giving results and it is accurate and gives results in easier ways such as "the y-axis, the x-axis and the height." We used many types of sensor as "Line sensor to detect the white line and Ultrasonic sensor to measure the distance".



we have made a few of changing on the robot design, as the second base we make by acrylic material because we know that it will be more nicer and good for the camera.



3. Robo Cup Achievement

The team has no previous experience in the Robo Cup competitions. This is our first participation. Except for the national competition in January 2020, we participated in national RoboCupJunior Rescue Line in UAE and we won the first place.

4. Discussion and conclusion

