

Firebird Simulator

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Problem statement

Adding the functionality of gripper arm on the simulated robot using player stage open source simulator.

Requirement specification

Simulation of -

1. White line follower
2. Pick and Place
3. Obstacle sensing
4. Map tracer

Final system

- 1. White line follower
- 2. Pick and Place
- 3. Obstacle sensing
- 4. Map tracer

Problems encountered

- Getting familiar with with Player and Stage
- Making the robot to place the object at specified position

Future Work

- Implementation of distributed Robots for industrial automation purpose in which robots will be able to communicate with each other and more than one robot will be used for picking and placing the objects at required place.

e.g simulation of automation robot project
(e-yantra site)