

TARS

THE TEAM:

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OBJECTIVE:

The project is to make an R.C wheeled bot which can travel on ground and also be able to lift itself through stairs. we will also be making it detect the height of the upcoming stair and adjust the climber accordingly.

MOTIVATION:

This bot will be the basis for automated mining where we will have to cross obstacles faster.

WHAT WE MIGHT NEED:

Our project is quite mechanical so we just need the working of sensors (image sensing), working of motors to lift the appliance and embedded systems linking a remote control to the programme.

Material we will be using:

- ~ high strength rods (about 3000/-)
- ~ sufficiently tensile broad plate (about 500/-)
- ~ thick rubber studs which can stay stuck to the floor (about 800/-)
- ~ bread board (about 200/-)
- ~ wheels (about 500/-)
- ~ hinges (about 300/-)
- ~ sensor (about 1000/-)
- ~ motors (about 1000/-)
- ~ battery (about 1000/-)
- ~ misc. material (handles, oil etc) (about 500/-)

TOTALLY: AROUND Rs 10,000/-

TIMELINE:

WEEK 1

Exactly know what else we will be needing and Buy all the stuff required.

WEEK 2,3

Start and continue building the appliance under the guidance of a mentor.

WEEK 4

Continuously improvising and testing the trolley over different types of stairs.

WEEK 5

Make final adjustments and wrap it up....