AUTONOMOUS WALL PAINTING ROBOT

Different mechanisms involved are:

1. The base with wheels:

This will contain the four wheels attached to the carbon base, which intern are powered by dc motor, and also IR sensor are placed which will relay the information of the nearby objects which will help in motion.

1. The carbon base place where all the components will be kept:

It will hold the wheels, the painting frame, the motors, the lcd, which will display the necessary information and other programming stuff, it also holds the microcontroller.

1. The frame which will have pully or belt kind of mechanism which will have the painting hand:

This will have aluminum section which will hold the spray paint machine, it will have the mechanism of moving the spray machine across the frame and attached microcontroller will command it when to start and when to stop.

1. Painting mechanism spray hand:

This will have the spray mechanism attached with a nozzle and filled paint will be pumped by the stepper motor that is kept on the carbon plate, this will also hold the sensors which will detect the obstacles on the wall and rely that information back to the microcontroller and future process will happen.

1. Microcontroller:

It is the brain of the system which process all the necessary information required to run the bot like giving out commands and processing the received information, etc.