Waypoint Follower Robot - Implementing theory of Dead Reckoning

ajay_bhargav, Sun Nov 01 2009, 02:20 pm

A practical approach to a theoretical concept. Author *Ibrahim Kamal* decided to put a theoratcal concept of Dead Reckoning to a practical application to actually understand it.

The aim of the project is simple: Build a robot that moves in any required direction, while keeping record of it's actual position and angle with respect to a reference starting point but without any lines or ground marks to guide the robot. This data will be then displayed on an LCD display.

while this robot proved how difficult it is to archive satisfactory results for robot positioning and mapping systems without any ground reference except the start point, it helped to understand many issues related to the process of dead reckoning, including the factors that reduced precision in position measurement, and hopefully it will help us to build a more accurate robot taking in account all the experience achieved from the construction of this robot.

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