ROS-based Differential Drive

Mentor 1: Arjun Bhardwaj

Mentor 2: Abhay Saxena

Targets to be achieved

- PS3 Control ROS-Interfaced Differential Drive
- Human Identification and following robot

No. of Fresher's in Team: 3

Probable List of Components

1. Differential Drive
2. NVIDIA Jetson
3. PS3 Controller
4. Camera
5. Distance Sensors

Proposed Timelines

S.No.	Tasks	Timeline
1.	Getting Familiar with ROS	18 May - 25 May
2.	Research on Human Detection Methods	18 May - 25 May
3.	Running ROS on Jetson	22 May - 27 May
4.	Implementation of Human Detection Algorithm	25 May - 3 June
5.	Differential Drive using ROS	27 May - 3 June
6.	Adding PS3 Control	3 June - 7 June
7.	Robust Human Tracking and Distance Determination	3 June - 15 June
8.	Improving PS3 Control and Speed of Drive	7 June - 15 June
9.	Implementing Human Tracking on Drive	10 June - 25 June
10.	Testing & Modifications	15 June - 10 Aug