Gesture Controlled Robotic Car

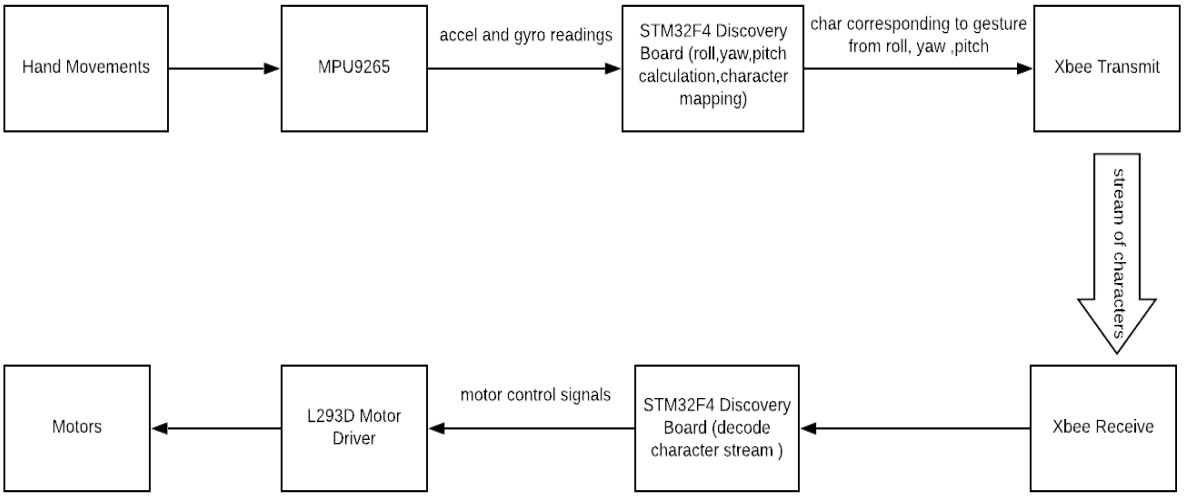
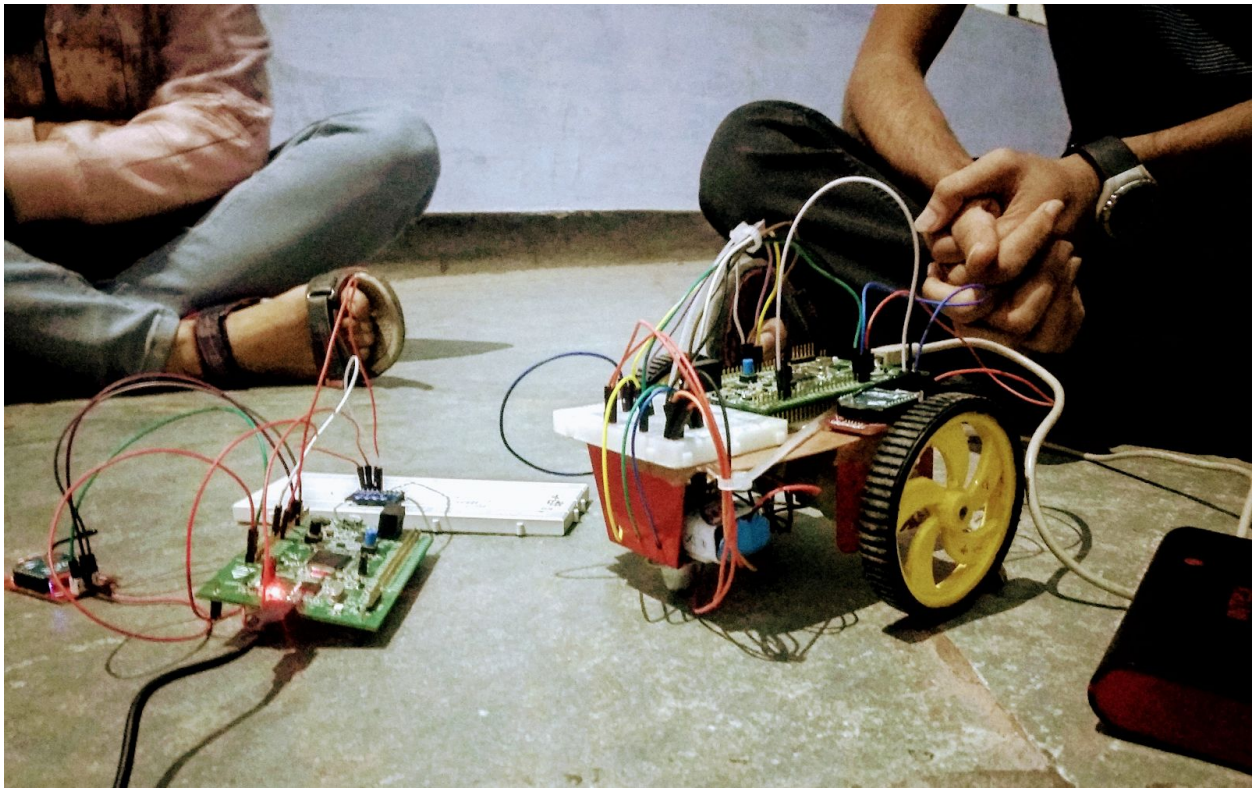
Aim: To control the robotic car using hand-mapped gestures via Xbee pro module.

Components:

1) MPU9265
2) Xbee pro modules
3) Stm32f4 discovery board
4) L293D Motor driver module
5) DC Motors

Design:

The proposed design is based on the flow of the given block diagram.



Hand Gesture	Corresponding Character Mapped	Robotic Car Movement
Downwards	‘B’	Continuous Forward
Upwards	‘b’	Continuous Backward
Tilt Right	‘C’	90 deg Backward Right
Tilt Left	‘c’	90 deg Backward Left
Steady	‘s’	Stop