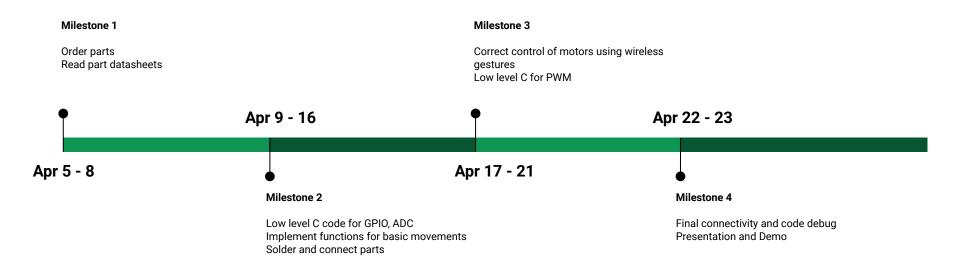
Gesture Controlled Robot

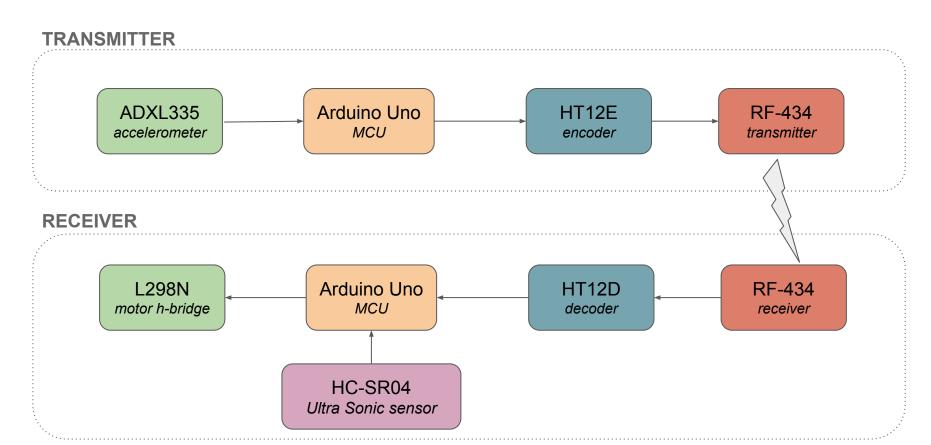
ECE 6780 Project

Bhawna L. | Farhan N. | Mohit K. | Sachin B.

Milestones

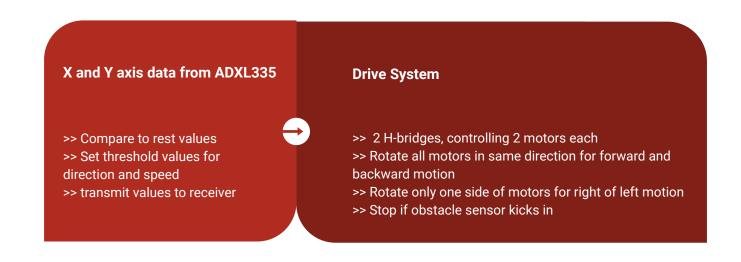


Overview



Implementation

- We used low level C implementation of ADC, GPIO and PWM
- Encoder pins used to encode both direction (ENC 0,1) and speed (ENC 2,3)
- Individual motor control, packaged into a single "drive module"



Outcome

ACHIEVEMENTS

- Works at distance > MEB corridor
- Controls even without line of sight
- 4-speed drive system
- Obstacle detection

LEARNINGS

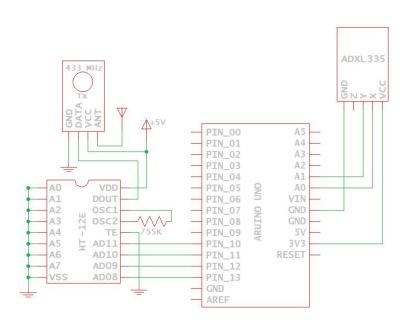
- The Arduino platform
- UNCERTAINTIES
- Modularized code

IMPROVEMENTS

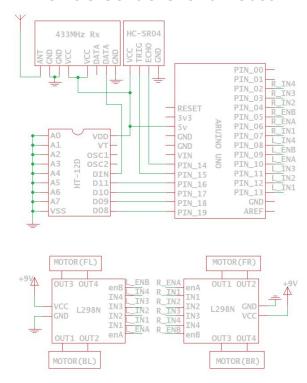
- More range of direction and speed
- •

CONNECTIONS

Gesture Controller

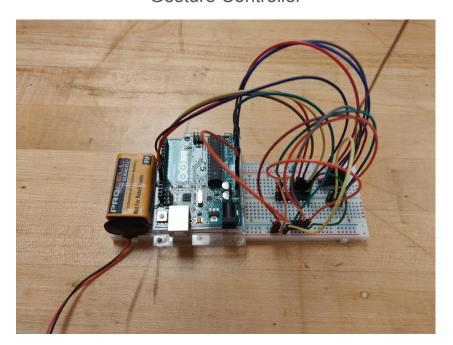


Vehicle Controller and Robot

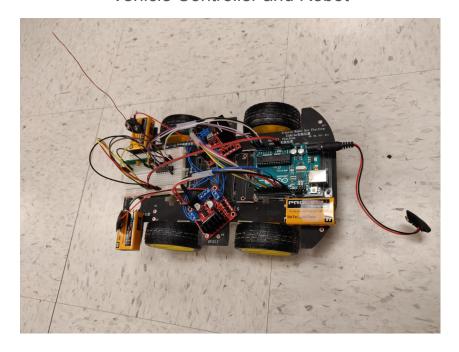


The System

Gesture Controller



Vehicle Controller and Robot



Video Demo

