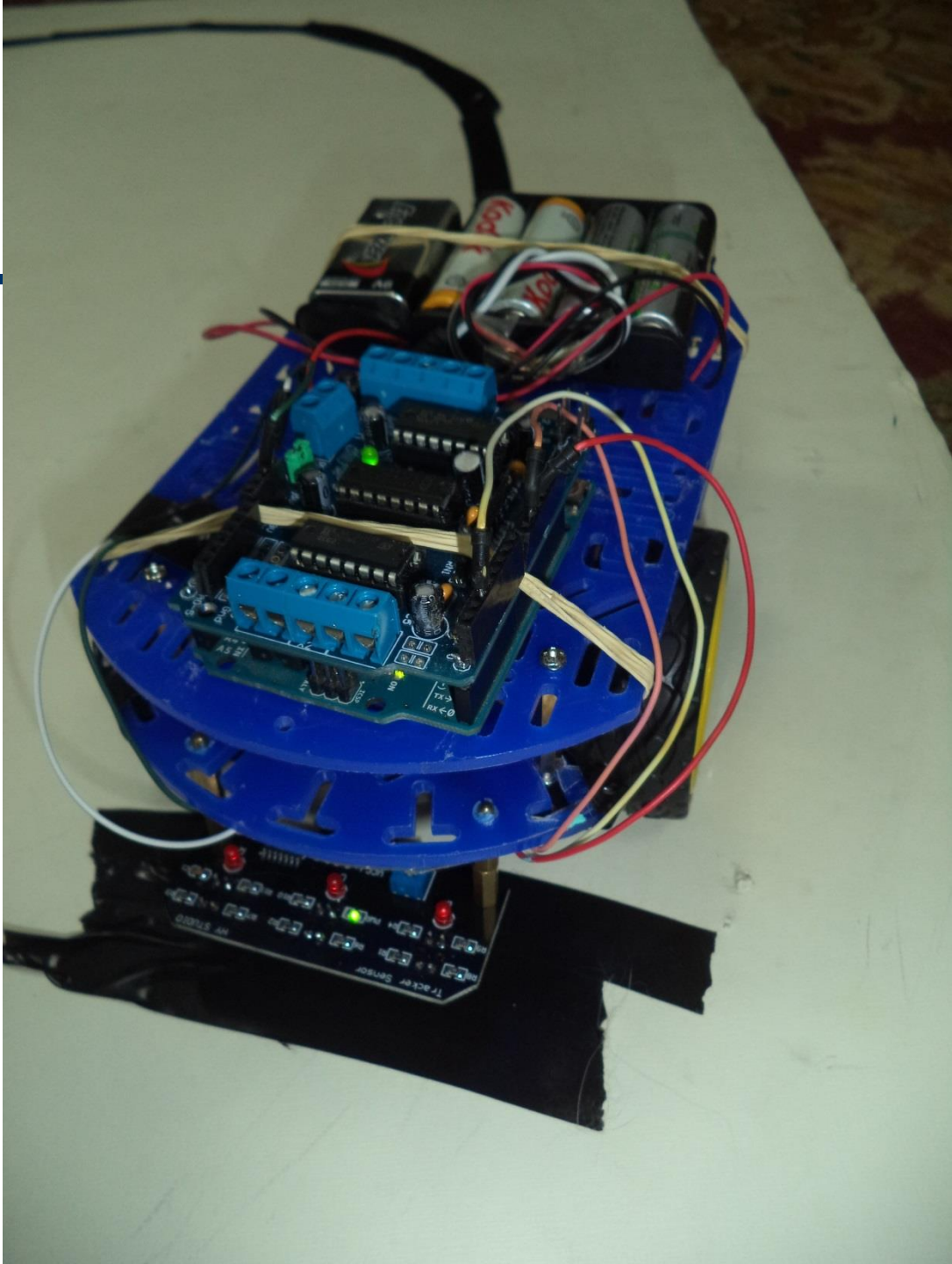




Line Follower Robot

By:

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How to include motor shield library

- `#include "DCM.cpp"`

How to define names for line follower sensor pins

- `#define R 2`
- `#define M 9`
- `#define L 10`

Initializing arduino serial port

- `void setup()`
- `{`
- `Serial.begin(9600);`
- `Serial.println("*****");`
- `Serial.println("welcome to line traker robot.");`
- `Serial.println("*****");`
- `}`

Setup Arduino line follower sensor pins as inputs

- `void setup()`
- `{`
- `pinMode(R, INPUT);`
- `pinMode(M, INPUT);`
- `pinMode(L, INPUT);`
- `}`

loop{} function

- `void loop()`
- `{`
- `// your code is written here`

- `}`

Initialize integer variables and read line follower sensor inputs

- `int Rv,Lv,Mv;`
- `Rv=digitalRead(R);`
- `Mv=digitalRead(M);`
- `Lv=digitalRead(L);`

Display line follower sensor readings on serial port

- `Serial.print(Lv);`
- `Serial.print("\t");`
- `Serial.print(Mv);`
- `Serial.print("\t");`
- `Serial.println(Rv);`

Check If user send command to arduino through serial port, arduino responds accordingly

- `int inByte = Serial.read();`
- `switch(inByte)`
- `{`
 - `case 'f':`
 - `// do someting`
 - `Break;`
 - `Case 'r':`
 - `//do something`
 - `Break:`
 - `Default:`
 - `// do something`
 - `Break;`
- `}`

Move robot forward for 500 mille seconds

- `motor(1, FORWARD, 255);`
- `motor(2, FORWARD, 255);`
- `delay(500);`
- `motor(1, RELEASE, 0);`
- `motor(2, RELEASE, 0);`

Move robot backward for 500 mille seconds

- `motor(1, BACKWARD, 255);`
- `motor(2, BACKWARD, 255);`
- `delay(500);`
- `motor(1, RELEASE, 0);`
- `motor(2, RELEASE, 0);`

Turn robot left r right for 250 mille seonds

- `motor(1, FORWARD, 255);`
- `delay(250);`
- `motor(1, RELEASE, 0);`



Thanks,..
See you next week (ISA),...