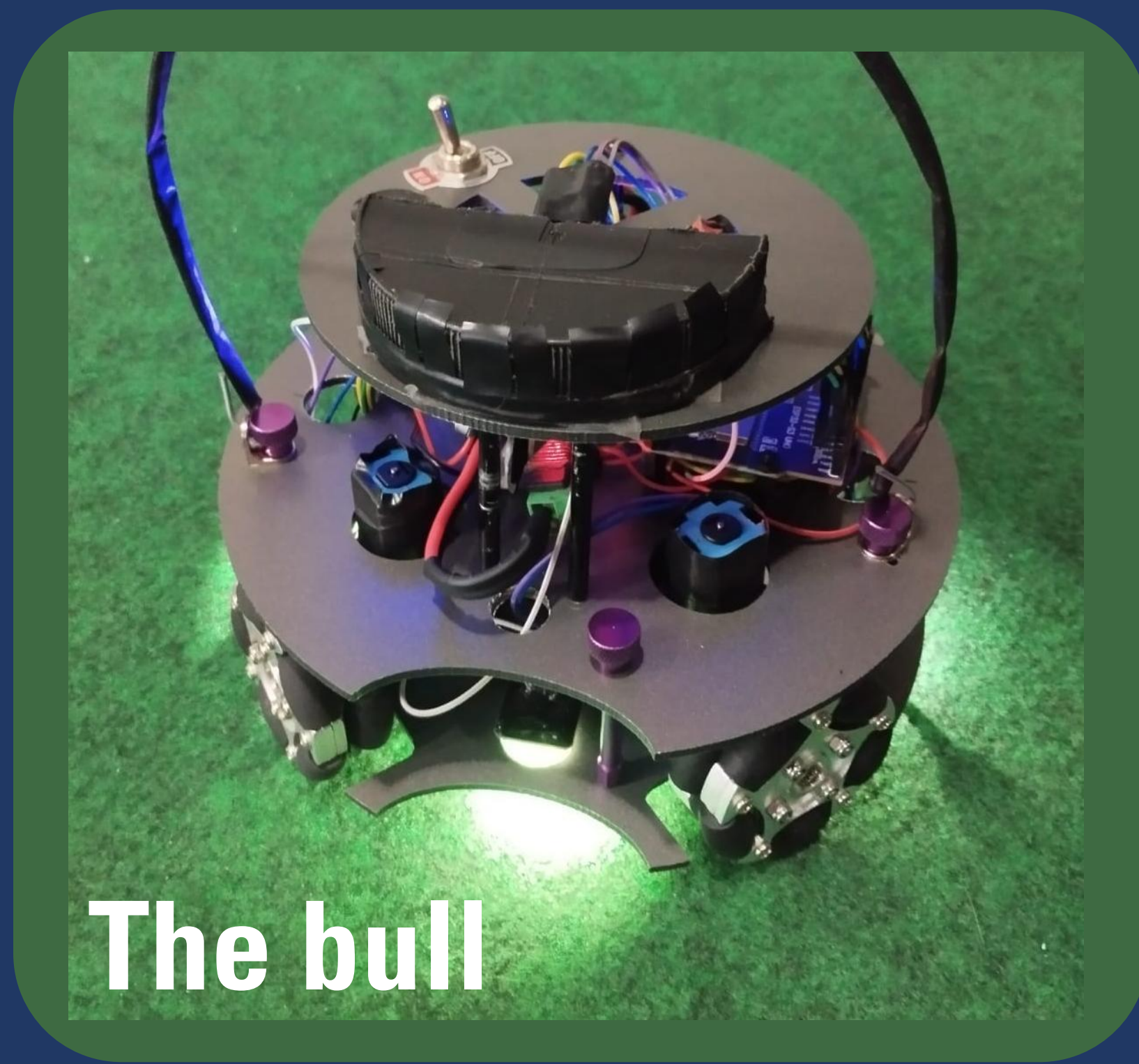




SOCCER LIGHTWEIGHT TEAM

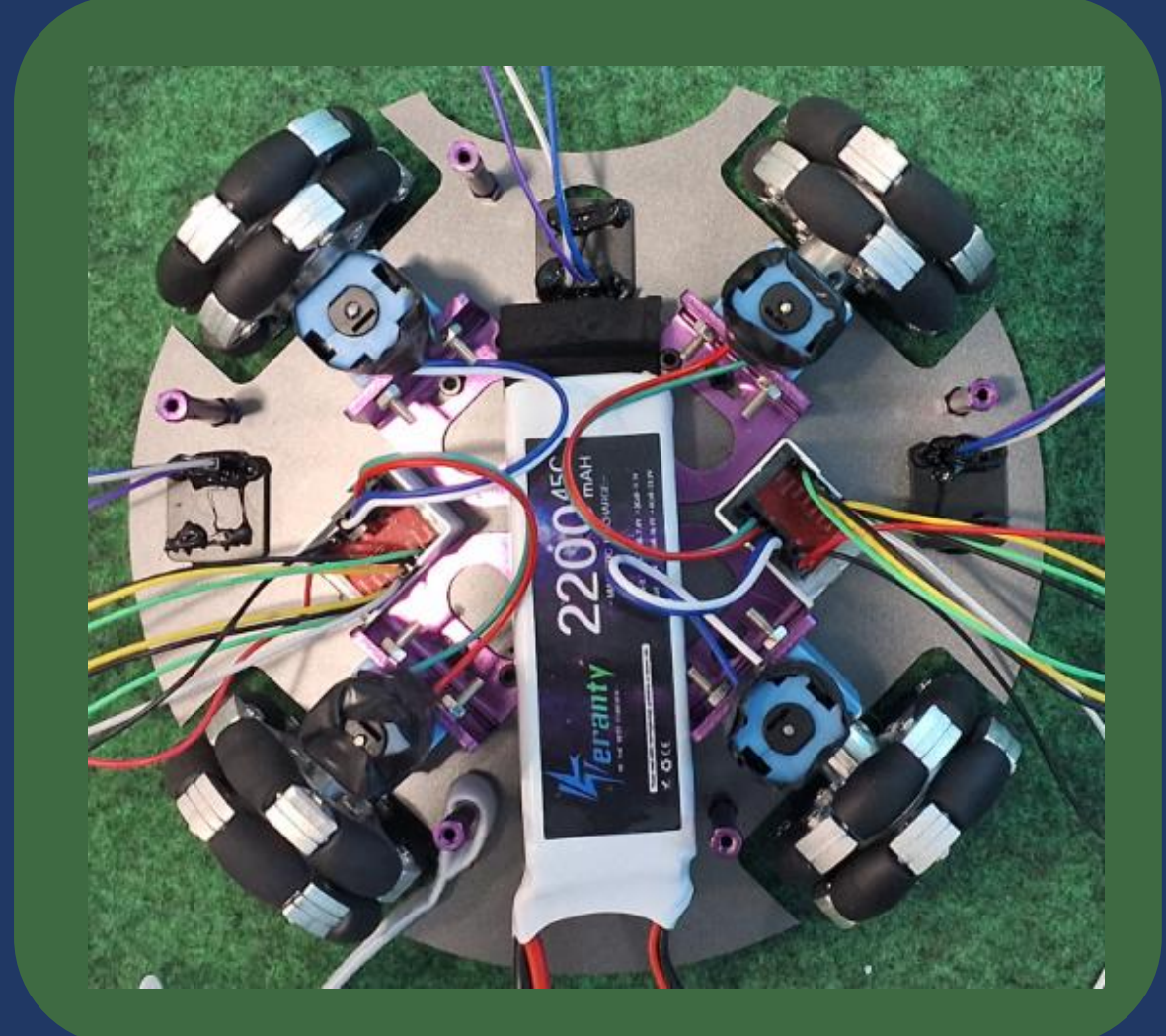
Yuri Veiga (Leader / mechanical)
Gustavo Pales (circuit welder)
João Marcelo (welder/battery managment)
Davi Campinho (programmer)



The bull

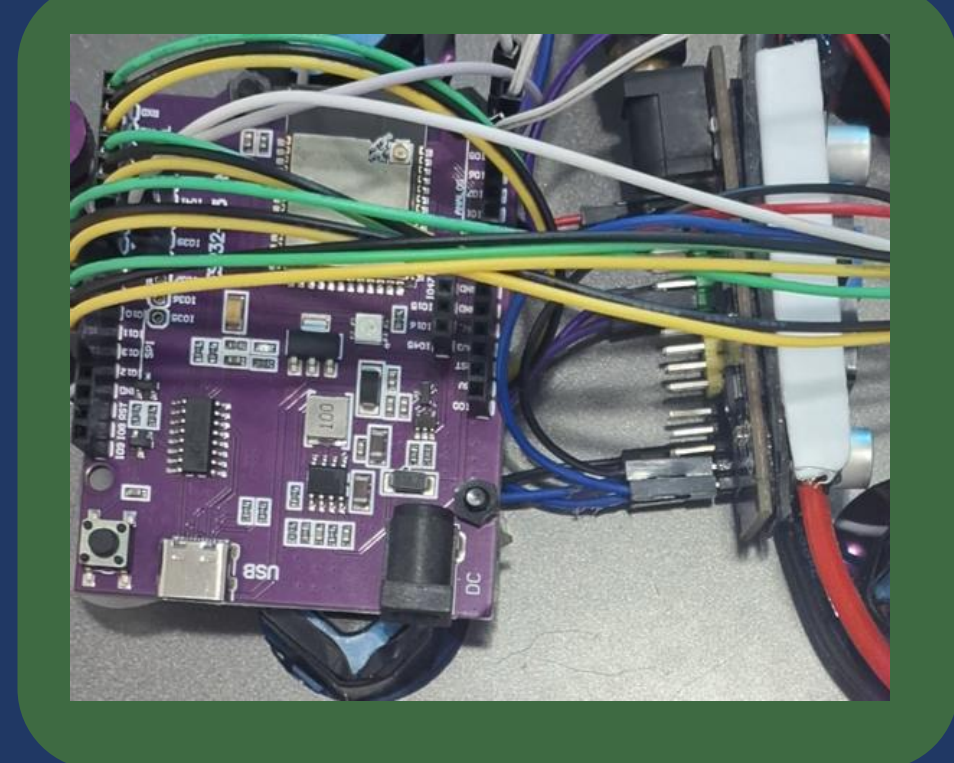
Base Structure

- 4 DC motors
- 4 omni wheels
- 2 motor driver
- 3 light sensors
- Battery 12v



Center Structure

- ESP32 microcontroller
- Step down regulator
- voltage converter module



Top Structure

- 5 IR sensor TSSP4038
- Power Switch
- Push button

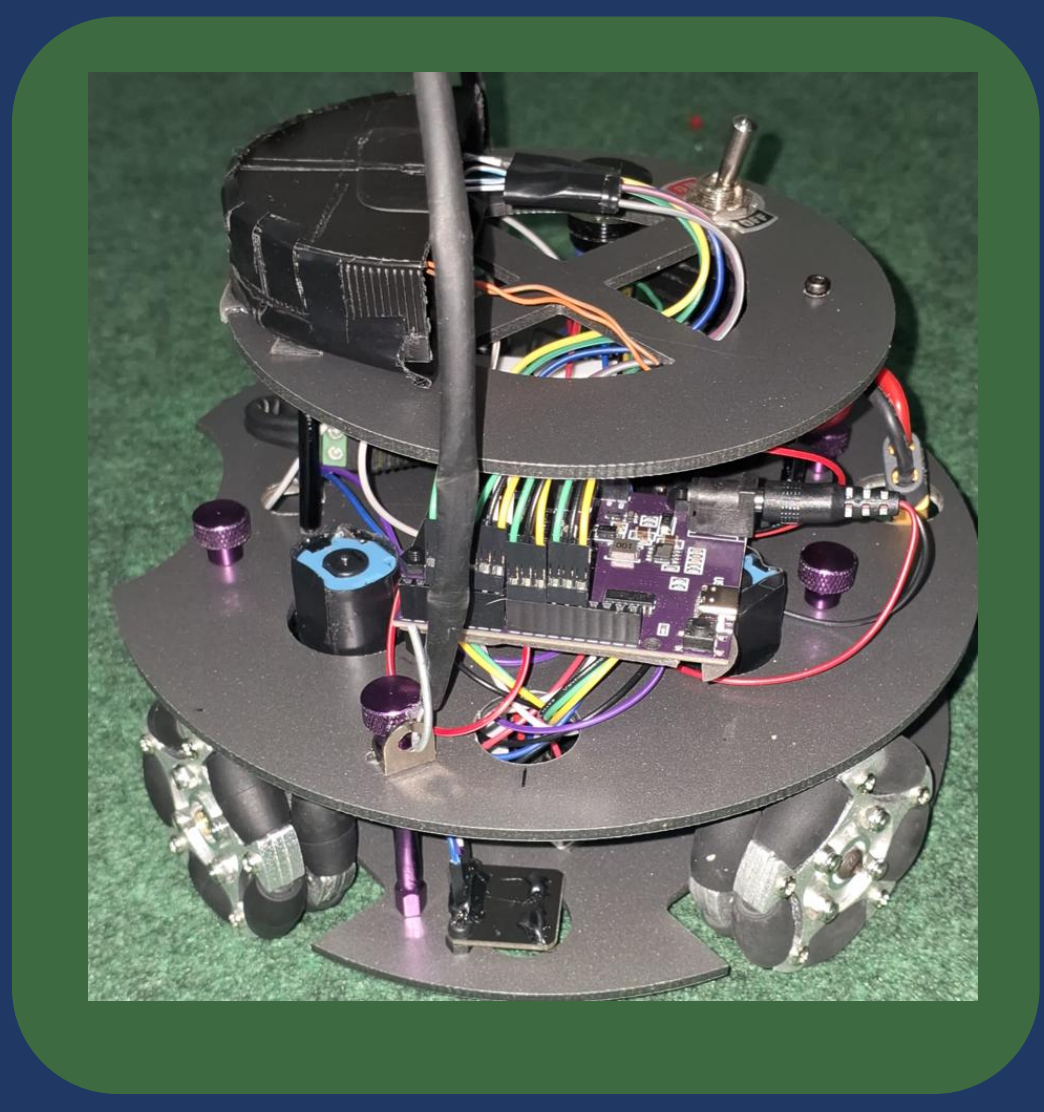
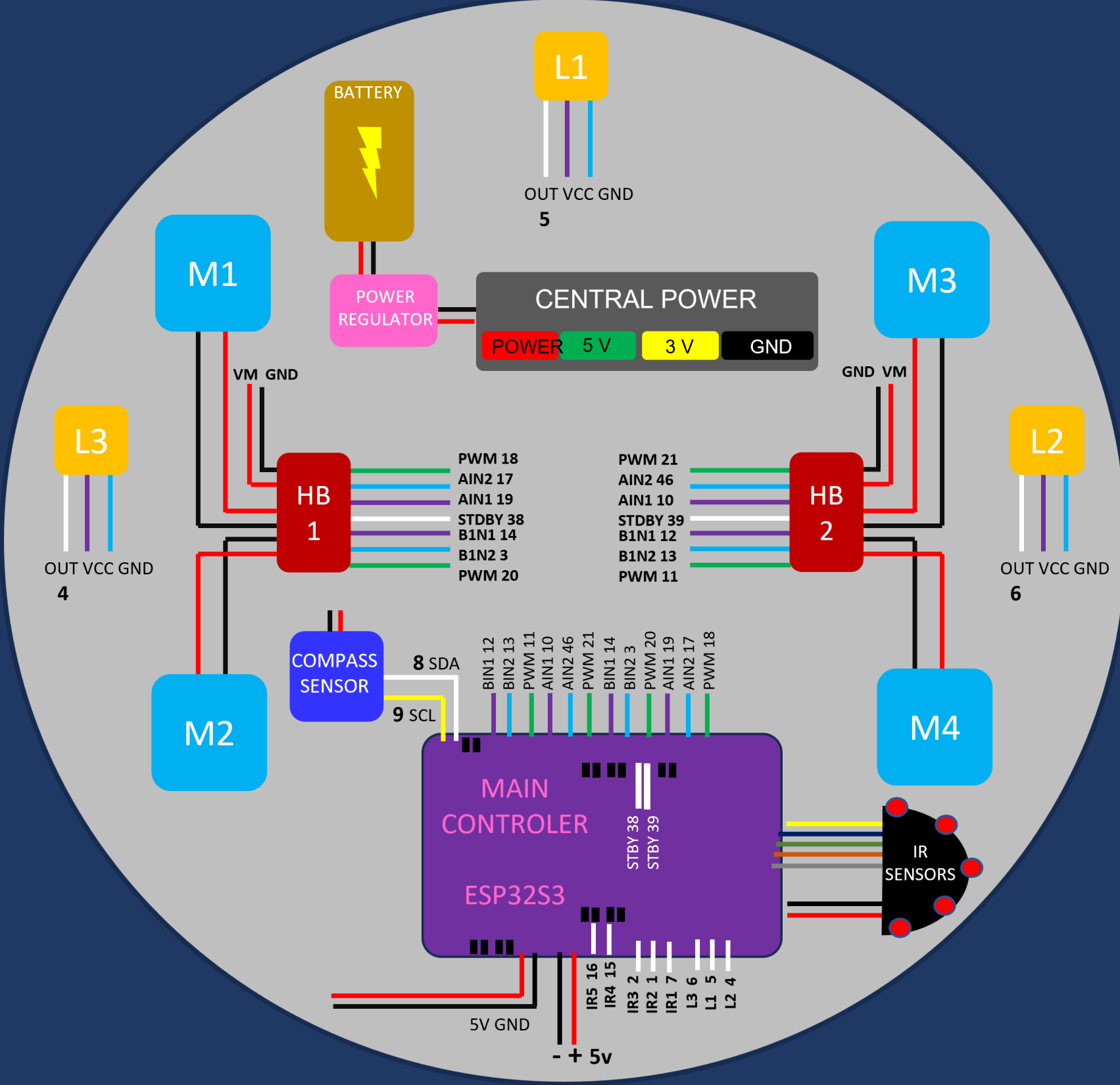


Diagram Electronics



Basic Strategy

Find and follow the ball with a combination of the five IR sensors and move fast forward.
Use the three light sensors to keep robots in the field.

