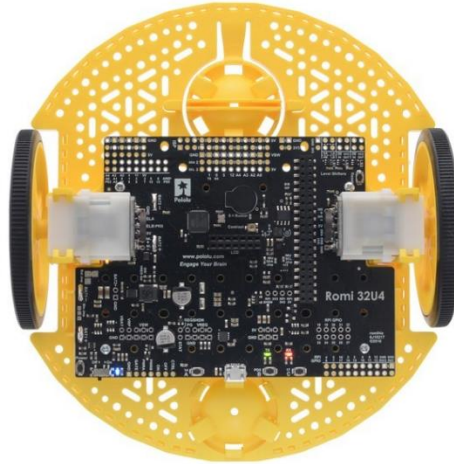


TASK 1

In this course, we used the Romi32U4 Control Board. There is a kit that can be purchased here, <https://www.pololu.com/product/3544>. The kit would include the Romi32U4, chassis, wheels, encoders, motors, and batteries. Ultimately, the rover should look as follows:



Instructions for setup:

- Solder male header pins to board (See Fig.1 below)
- Solder encoder to motor (See Fig.2 below)
- Place board on chassis
- Connect encoder/motor to board, should hear a snap
- Place magnet
- Connect wheels/ball
- Rover is ready to be programmed (See Fig.3 below)



Fig3

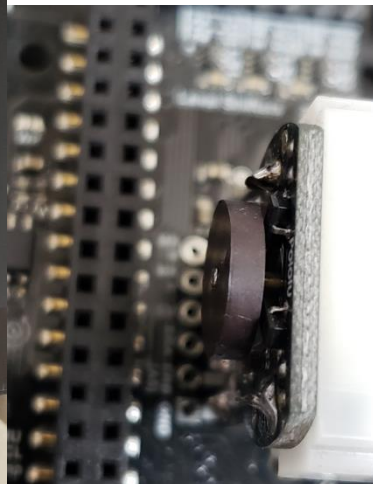


Fig.2

Solder the following pins:

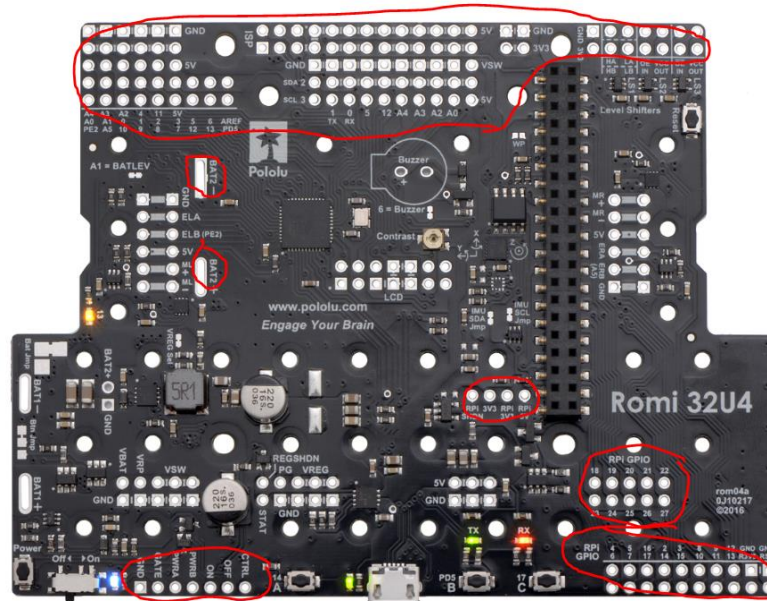


Fig. 1

One should also purchase:

- Raspberry pi
- Raspberry pi camera
- Micro USB
- FTDI

No assembling is required for these items.

Raspberry Pi installation is discussed in Task 8

Board is ready to be programmed. See Tasks 2-8.