

LAST 2 WEEKS

Time spent: 18.5h

What I learned:

- How to draw circuit diagrams
- GPIO number \neq PIN number
- M3 fits through 2.9mm hole!
- Plan your delivery times!

SPRINT OVERVIEW

- **Planned:**
 - 14 Cards
 - 30h
- **Current status:**
 - 13 Cards done, 1 card backlog
 - 31h

TIME ESTIMATES

- 7 cards matched exactly
- 2 cards $\pm 0.5h$
- 4 card + 1-1.5h (motor / robot control, framework / circuit design)

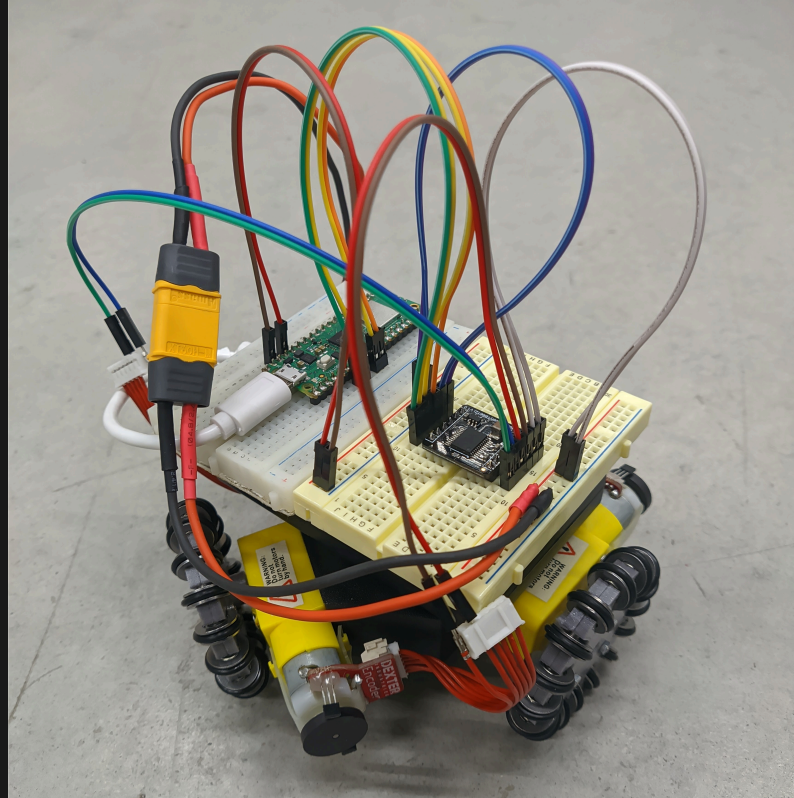
BEST CARDS

PRINT & ASSEMBLE OMNIWHEELS



no problems because of previous test print

ASSEMBLE FIRST PROTOTYPE



because of previous CAD and circuit design everything
fit well

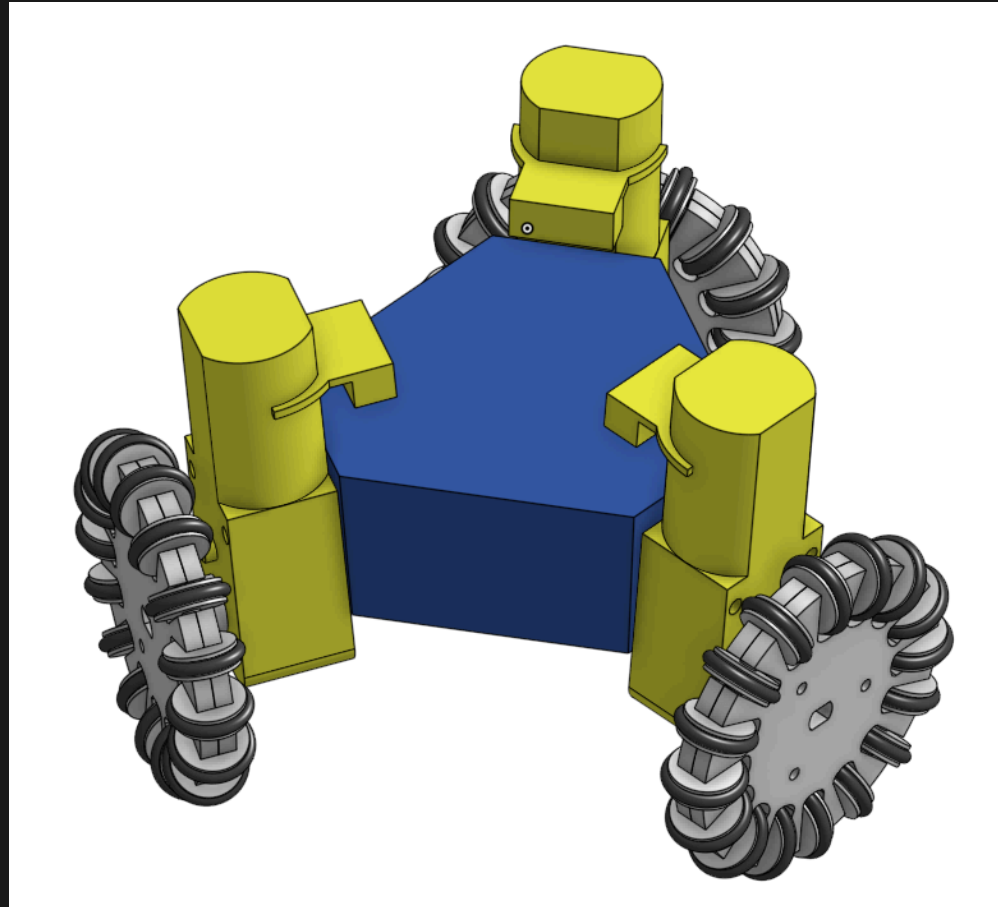
WORST CARDS

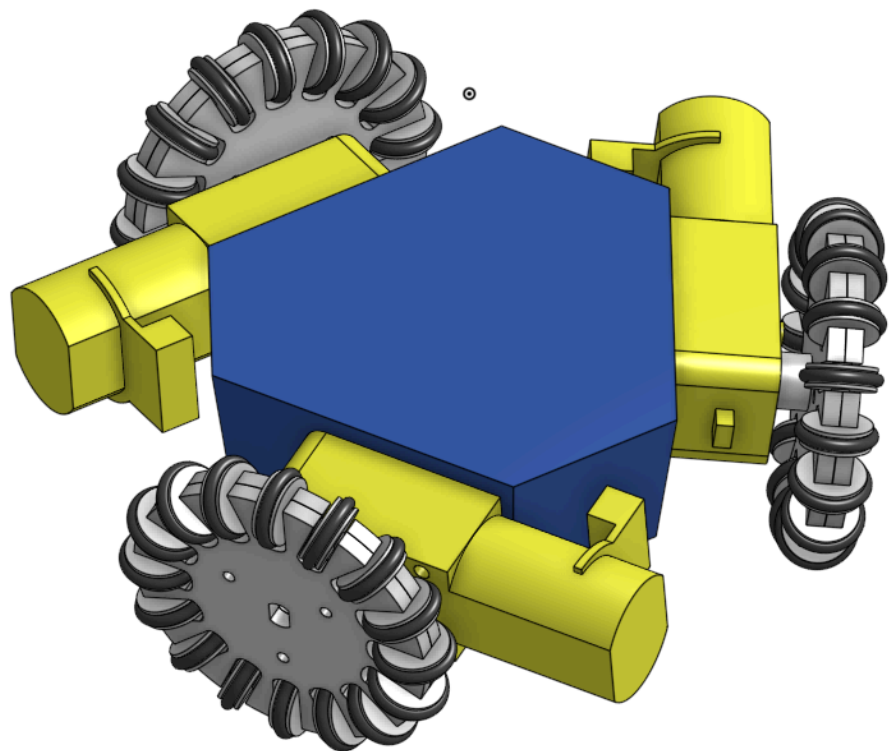
MAKE PICO CONTROL ONE MOTOR

- took much longer than expected
- reasons:
 - unfamiliarity with pico pins
 - hardware debugging is difficult

DESIGN FRAMEWORK V2

- spend much time just thinking
- reasons:
 - too little out-of-the-box thinking
 - too large steps (already wanted to include PCB)





BIGGEST SUCCESS

Moving Robot (Live Demo) :D