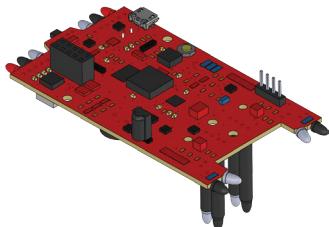


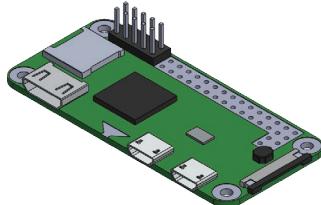
# Build + Quick Start Guide

# Parts List

## Hardware & Electrical Components



Zumi board



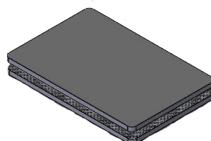
Raspberry Pi Zero



OLED screen



Battery



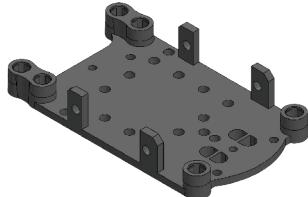
Velcro



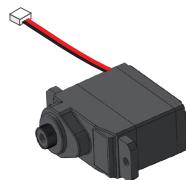
PiCam ribbon cable



Mounting bracket



Chassis



Motors x2



Wheels x2



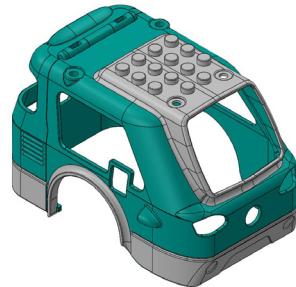
Pi Camera



Jumper wire



microSD Card



Zumi shell

## Fasteners



Long plug standoff x2



Motor screws x6



Long socket standoff x3



Thick silver screws x10



Short plug standoff x2



Thin silver screws x6



Short socket standoff x2



Mounting screws x8

## Tools



Screwdriver



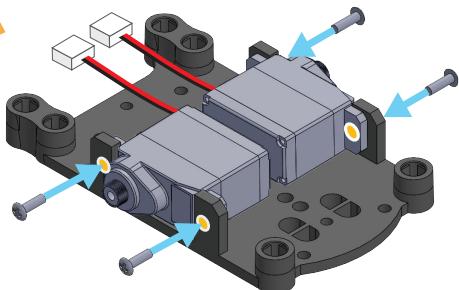
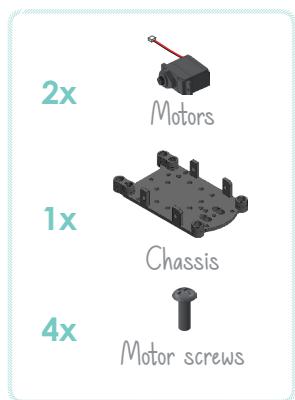
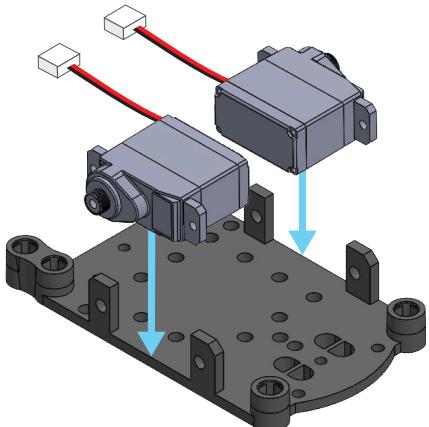
Micro USB  
Cable

# Building Zümi

Zümi has to be assembled before she comes to life. Help put her together by following these steps.

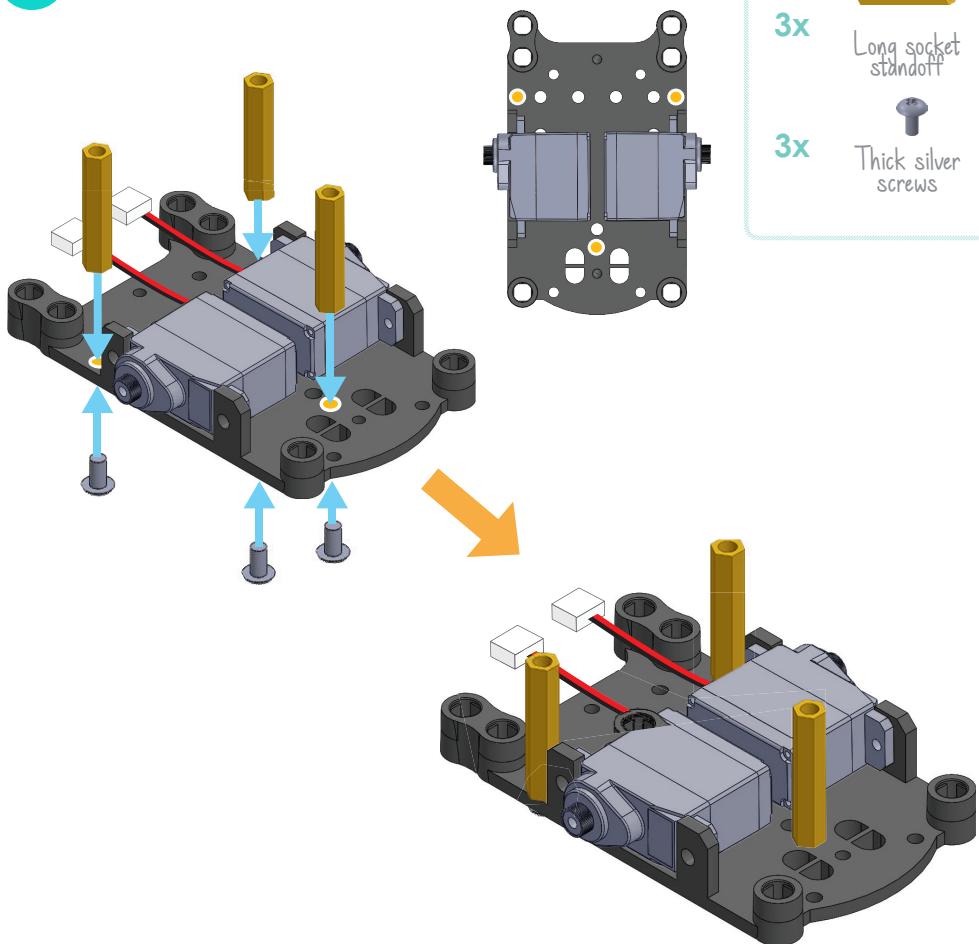
1

## Attach motors



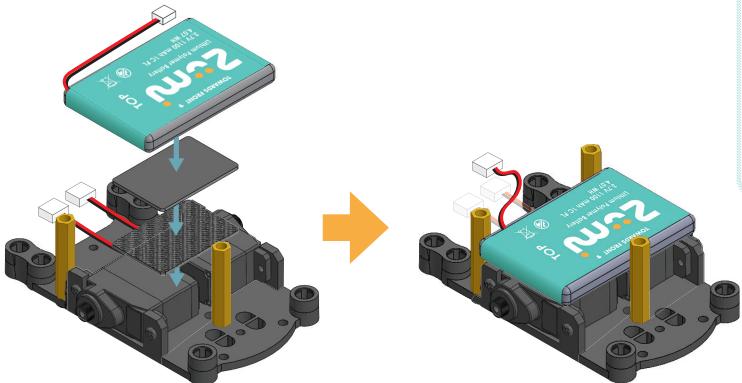
**TIP**  
Make sure the arms of the motors are  
on the inside of the chassis arms

## 2 Add standoffs to the chassis



3

### Attach the velcro and battery



1x



Battery

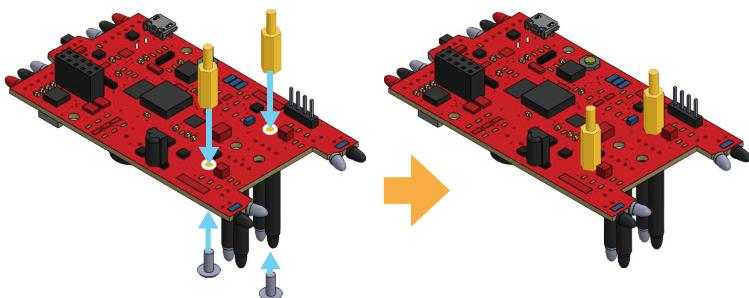
1x



Velcro

4

### Add standoffs to the Zumi board



1x



Zumi board

2x



Short plug standoff

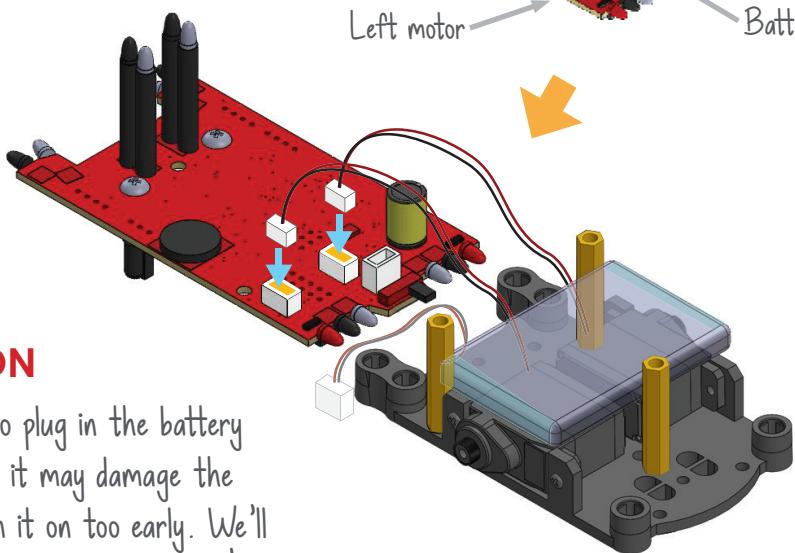
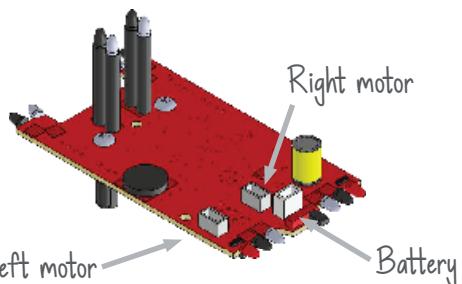
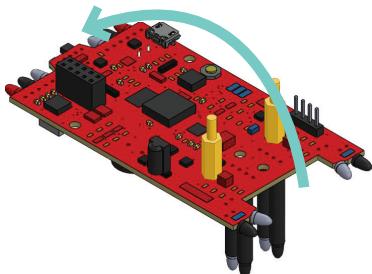
2x



Thin silver screws

# 5

## Connect only the motor wires

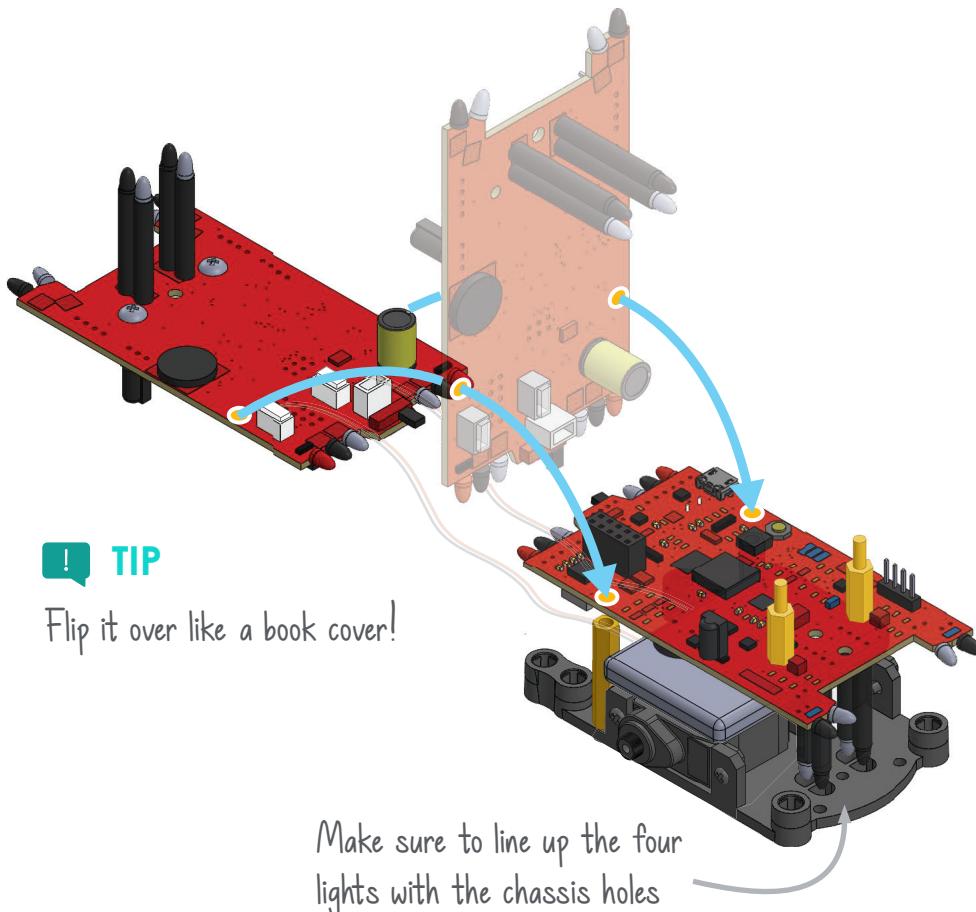


### CAUTION

Make sure **not** to plug in the battery just yet because it may damage the board if you turn it on too early. We'll connect the battery in the last step!

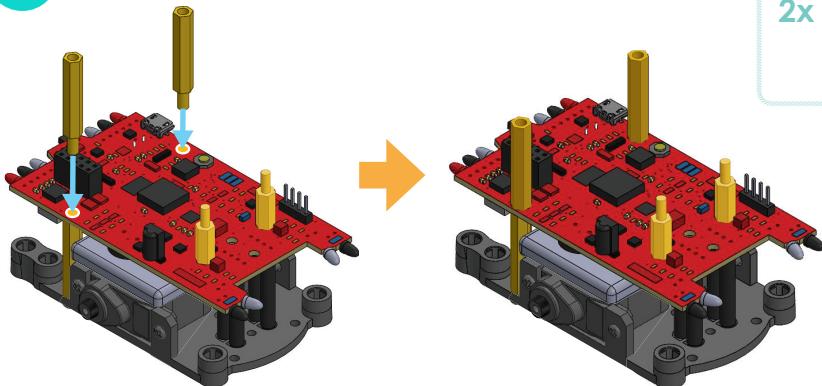
# 6

## Flip the Zümi board on top of the chassis



7

## Add standoffs to the Zümi board



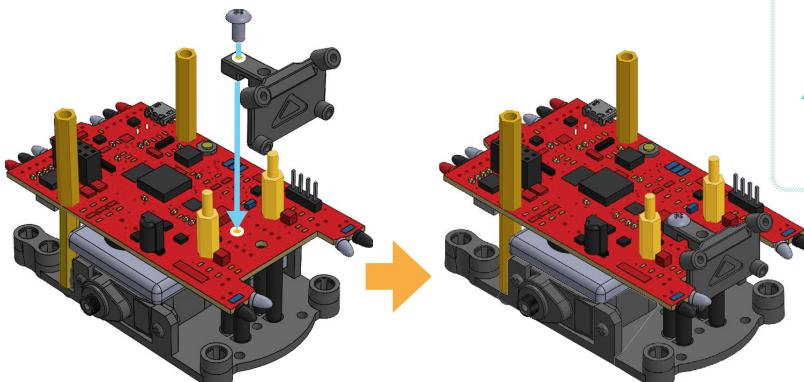
2x



Long plug  
standoff

8

## Attach the mounting bracket



1x



Mounting bracket

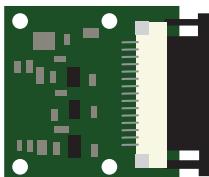
1x



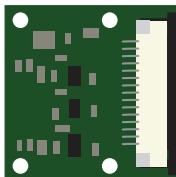
Thick silver  
screw

9

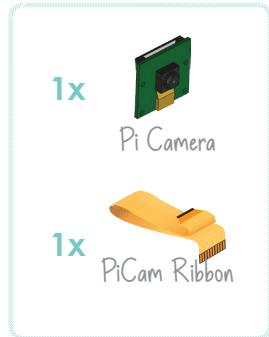
## Insert the ribbon cable into the Pi Camera latch



Open

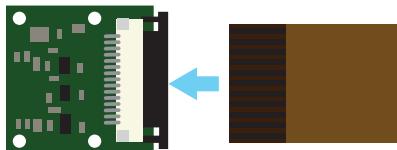


Close

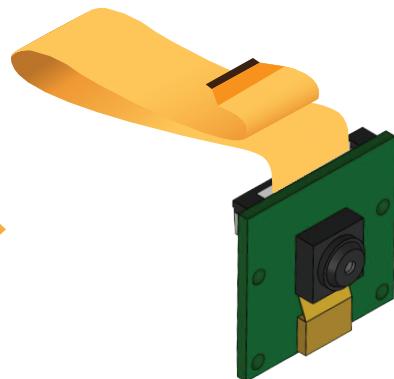
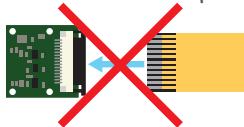


### TIP

In order to attach the Ribbon Cable to the Pi Camera, you need to open the latch, insert the cable, then close the latch



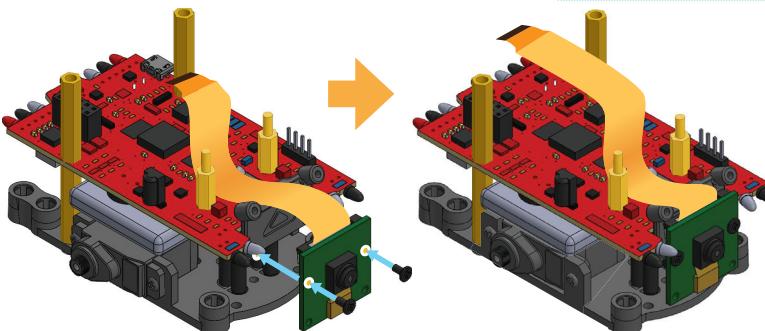
Dark Side Up!



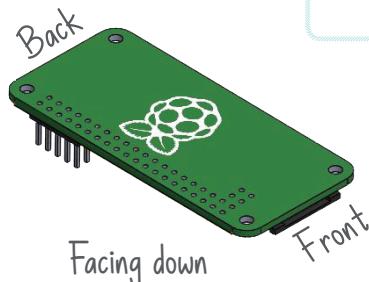
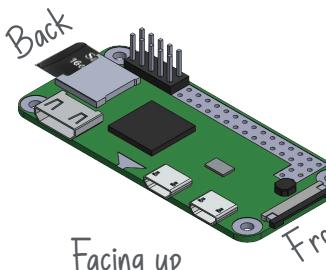
## 10 Attach the Pi Camera to the mounting bracket

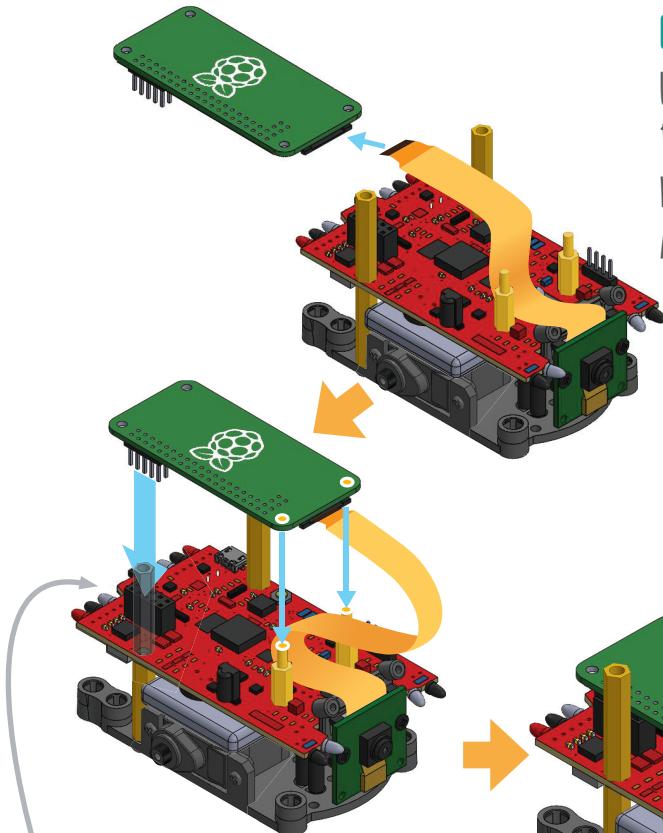
### TIP

The PiCam is attached to the lower two holes of the mounting bracket



## 11 Connect the Pi Camera to the Pi Zero, and attach it to the Zumi board

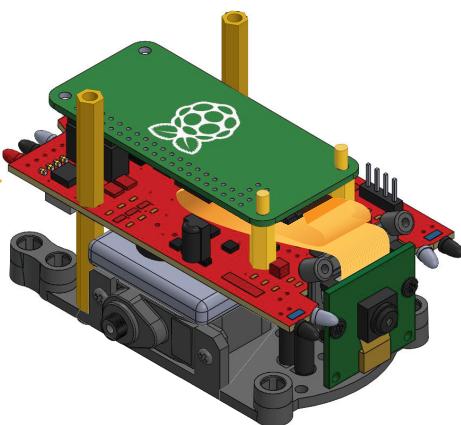




Make sure the pins line up with the socket before plugging in

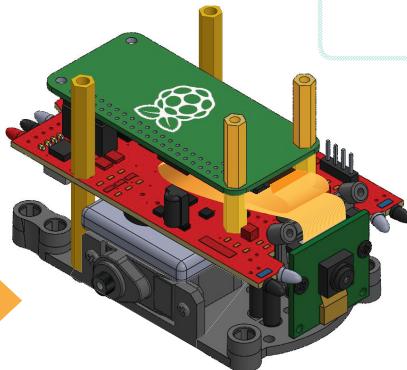
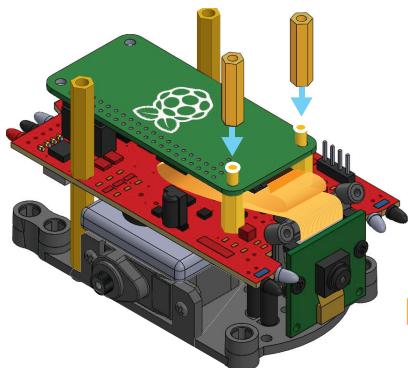
! **TIP**

Like step 9, insert the PiCam ribbon cable into the latch of the Raspberry Pi. Make sure to close it!



12

## Add standoffs



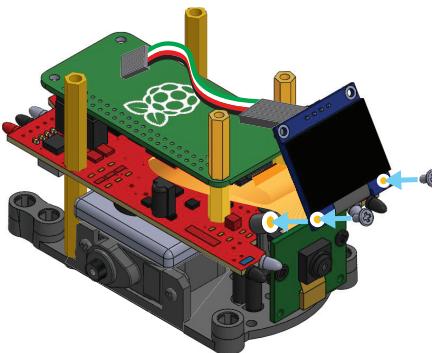
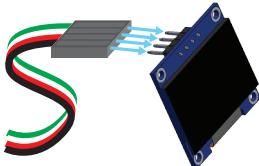
2x



Short socket  
standoffs

13

## Insert the jumper wire into the OLED screen, then mount it to the bracket



1x



OLED screen

1x



Jumper wire

2x



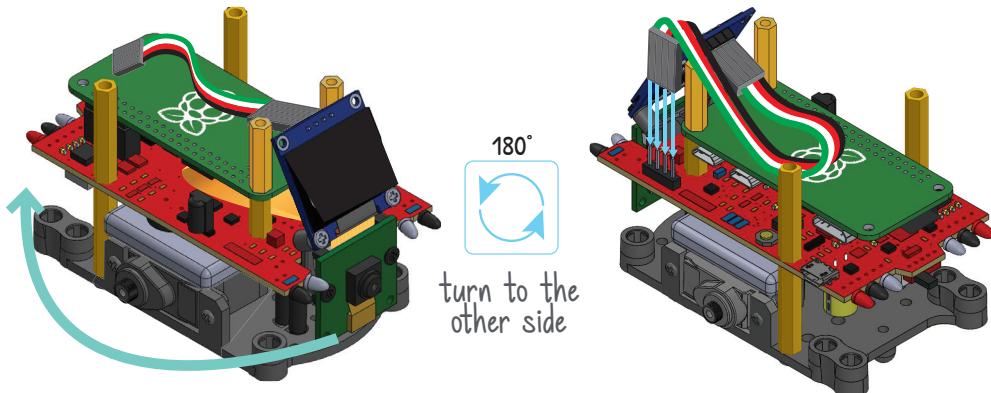
Mounting  
screws



TIP

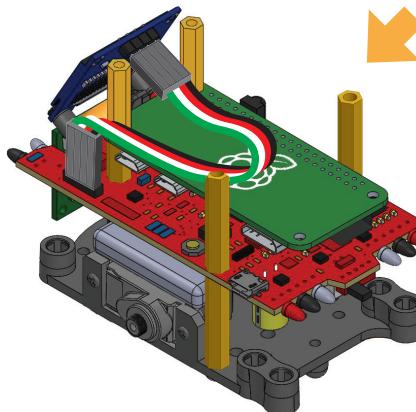
Make sure the wire colors  
match the picture!

## 14 Plug the jumper wire into the four-pin socket on the Zumi Board



### TIP

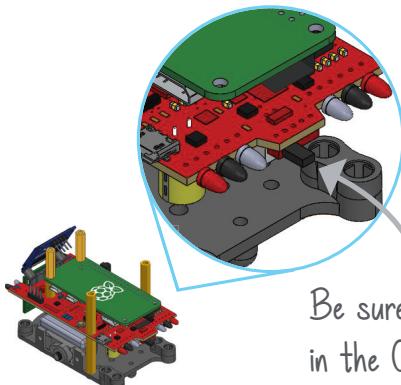
Make sure your wire colors match the picture, otherwise your screen won't work!



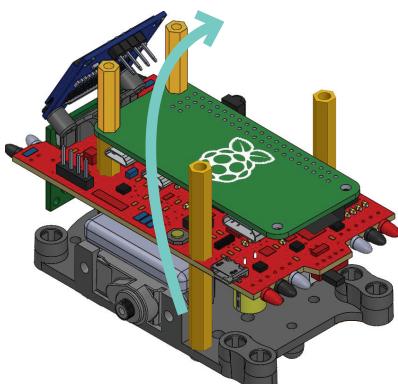
## 15 Plug the battery wire into the Zümi board

### ⚠ CAUTION

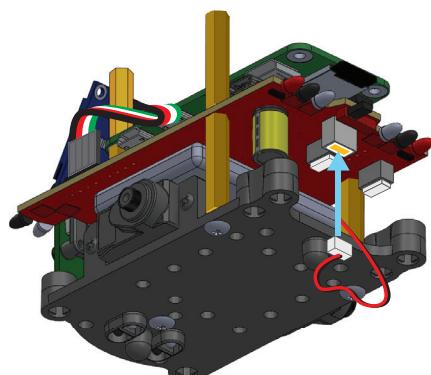
Make sure **not** to connect or disconnect components when Zümi is on. It can damage some parts.



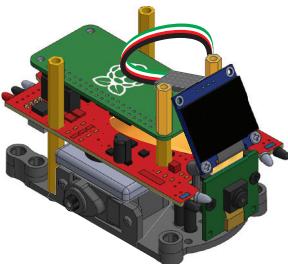
Be sure the switch is in the OFF position



look under  
Zümi



## 16 Attach the shell



1x



Zumi shell

2x



Thick silver screws

2x



Thin silver screws



thick screws



thin screws

## 17 Add the wheels



- |    |              |
|----|--------------|
| 2x | Wheel        |
| 2x | Motor screws |



# Powering and Charging

---

## Charging Zümi

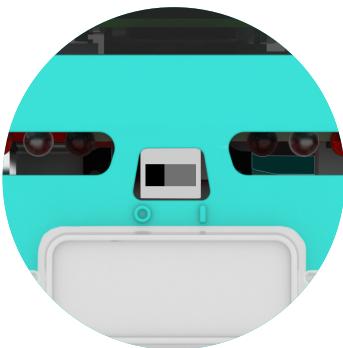
Plug Zümi in while the switch is in the OFF position ('O') to charge her battery.





## TIP

Zümi has to be in the off position to charge. You can switch her on to check the battery percentage and then boot up.



OFF and charging



ON and not charging



## Powering off

Zümi is a computer. So like a computer, it's best to shut Zümi off through the dashboard rather than just flipping the switch off.

# Getting Zümi Online

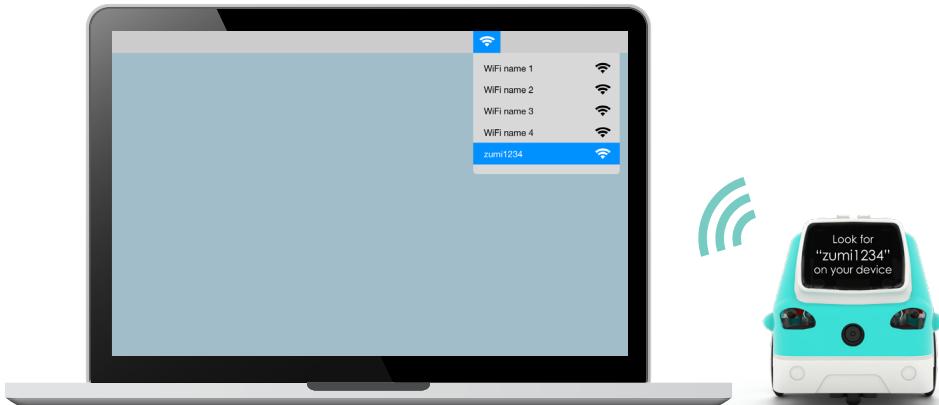
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After Zümi boots up, she'll tell you her name.

You will need **a computer with WiFi**. You can access her dashboard once you connect to her WiFi signal. Look for her name on your device's WiFi list.

The **password is the same as her WiFi name**. So if she tells you her name is 'zumi1234', her password is also 'zumi1234'.

Looking for Zümi on Mac



Make sure to get Zümi online so she can get  
the latest updates!



## TIP

If you don't see Zümi's name, try turning your device's WiFi off and back on

*(Chromebooks work too!)*

Looking for Zümi on Windows



# Support

• • • • •

If you have technical questions, feedback, or other concerns, join us in the community at:

[forum.robolink.com](http://forum.robolink.com)

We're checking it daily!



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