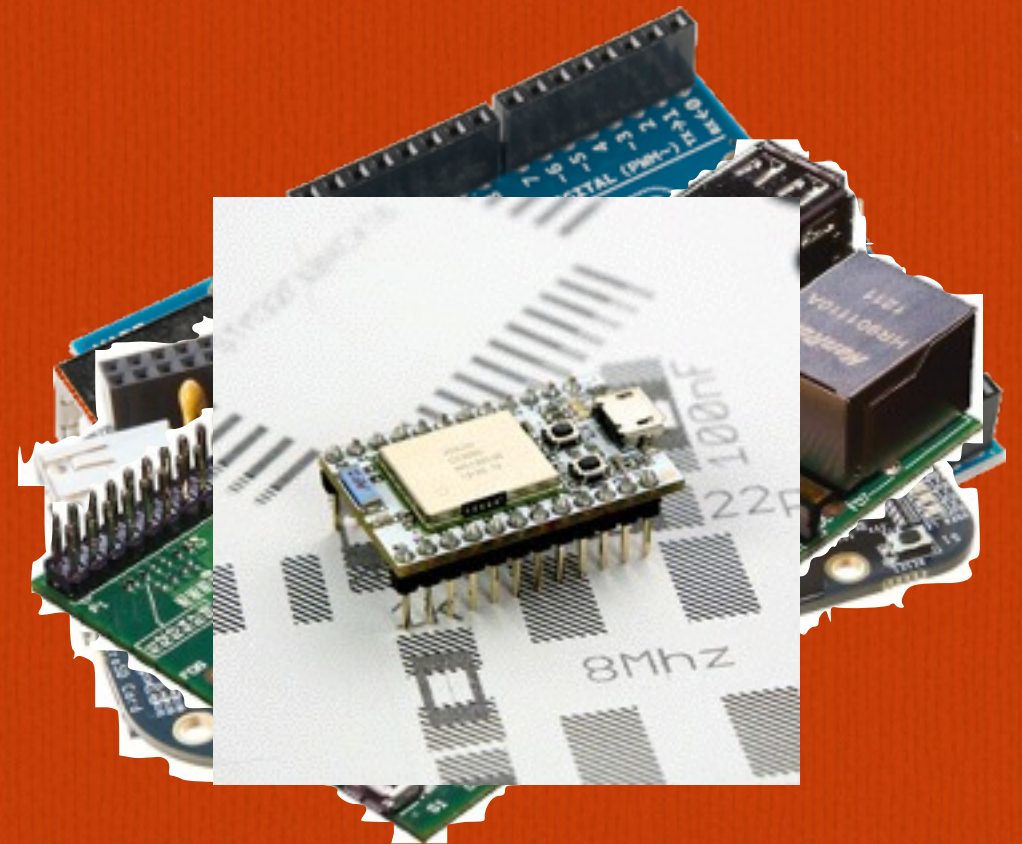


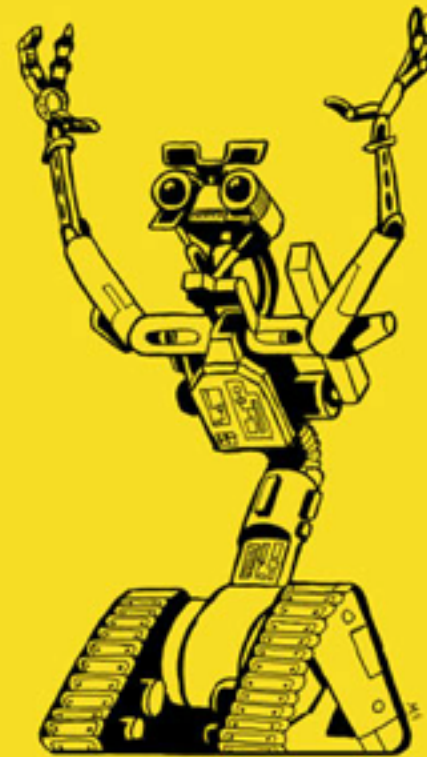
Nodebots!

Rodney Norris

What is a Nodebot?



Johnny-Five



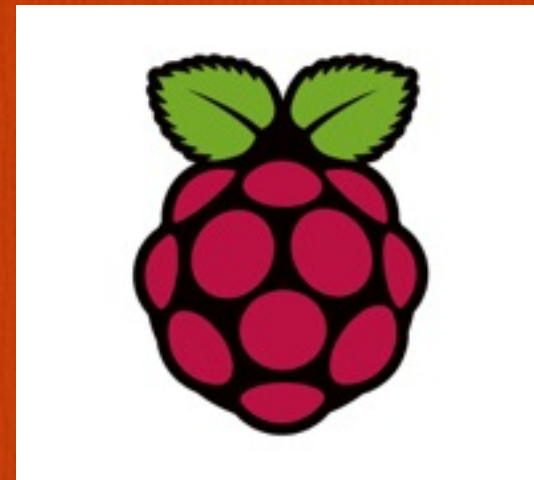
Johnny-Five

github.com/rwaldron/johnny-five

```
npm install johnny-five
```

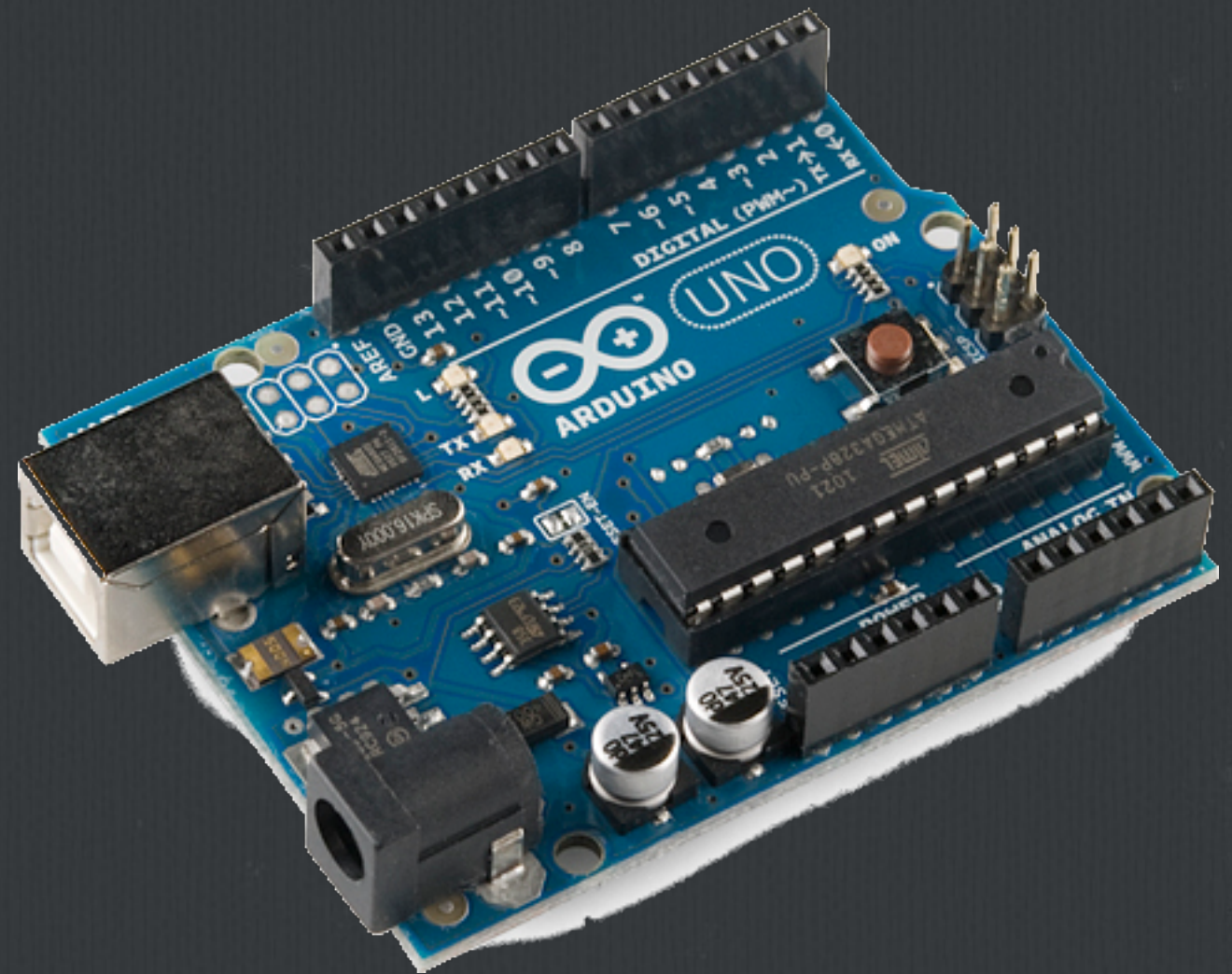
Support for:

- Arduino
- Raspberry Pi
- Beaglebone Black
- Intel Galileo
- Spark Core
- Pinoccio
- Generic IO

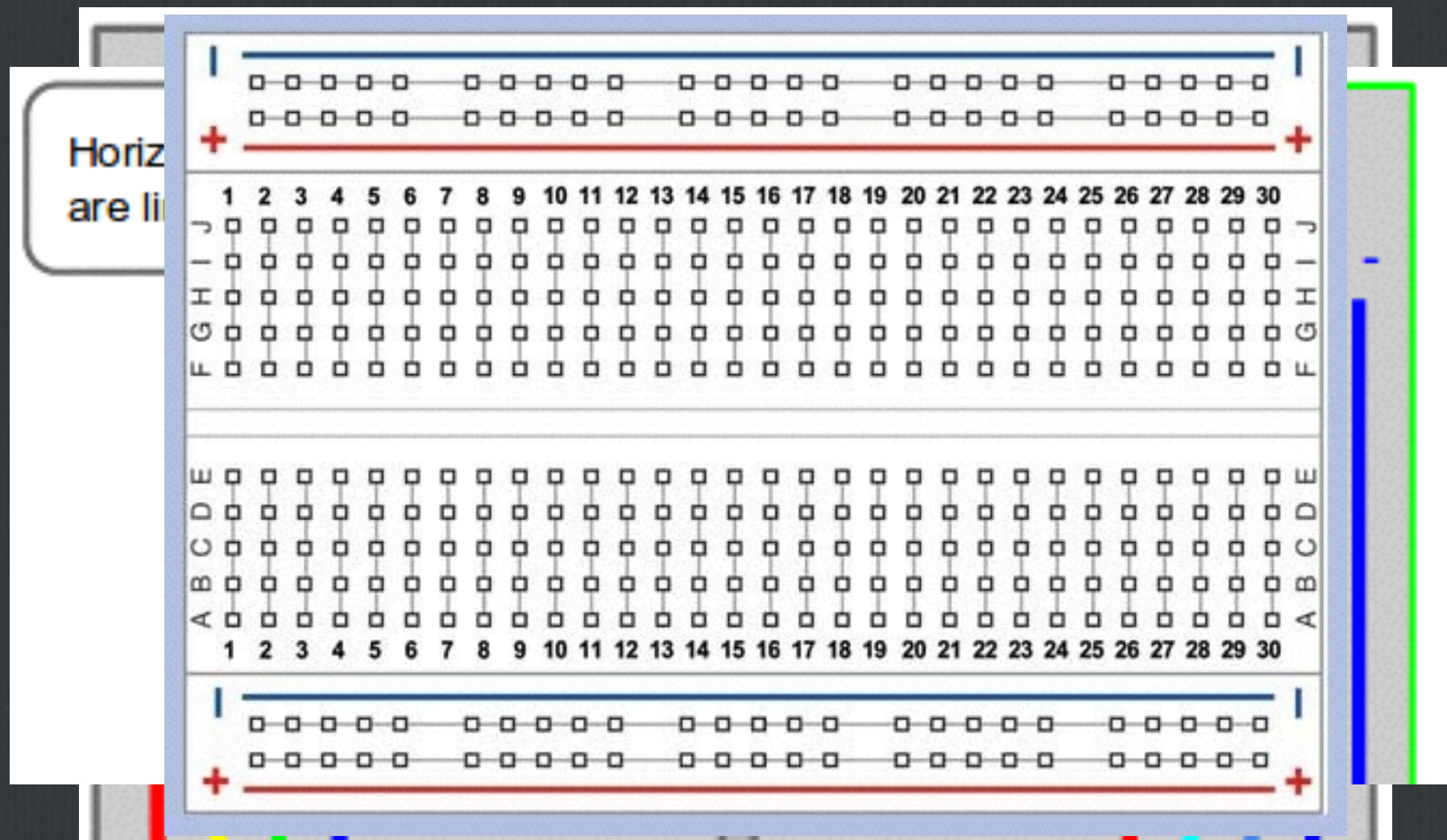


Arduino (UNO R3)

- ☐ Microcontroller
ATmega328 16MHz
- ☐ Digital I/O Pins 14
6 PWM output
- ☐ Analog Input Pins 6
- ☐ Flash Memory 32 KB



Breadboard

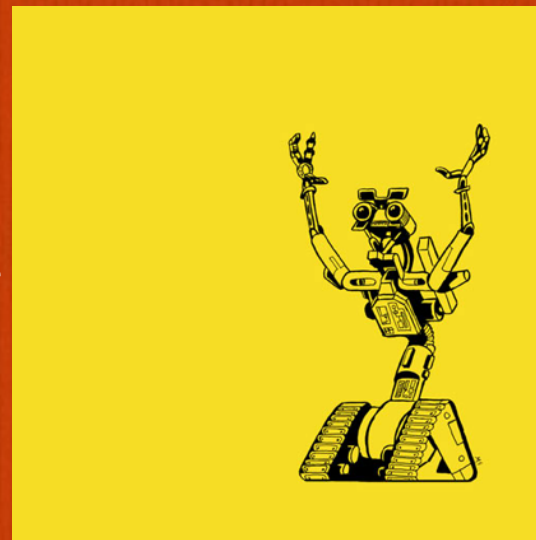


Workflow

Your App



Johnny-Five



Firmata
Firmware



USB

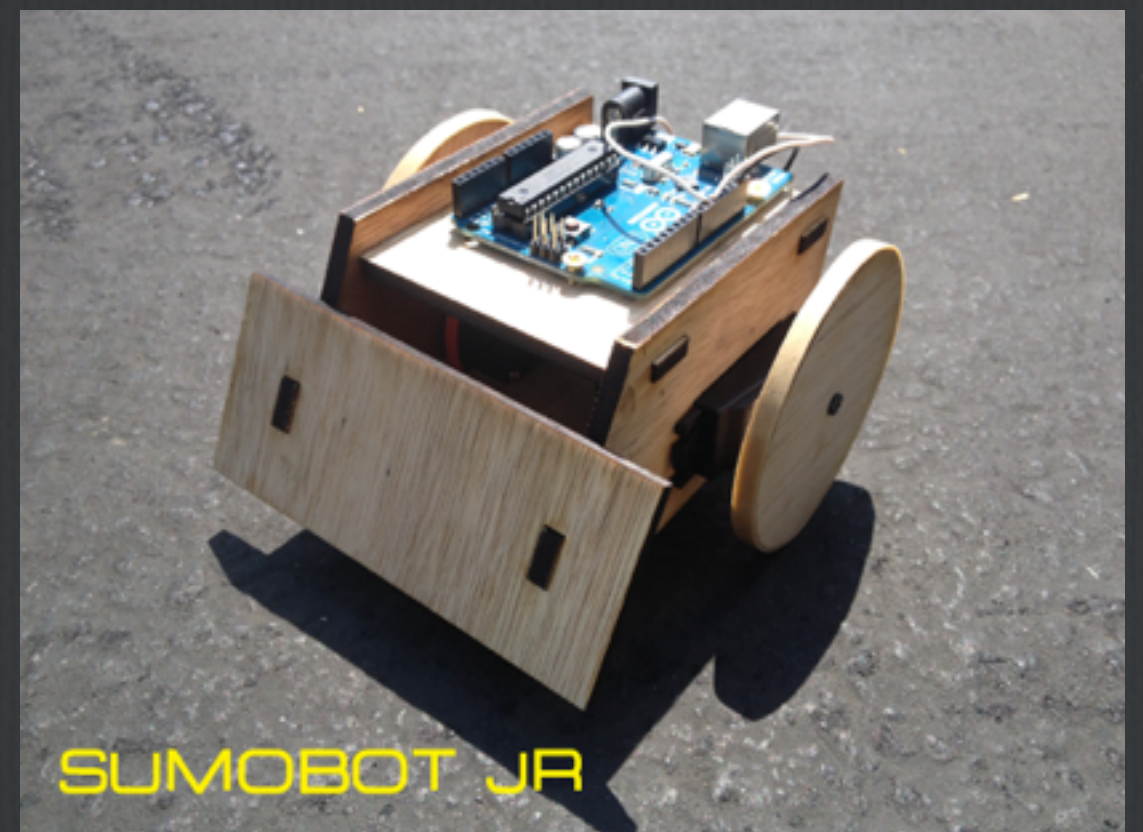
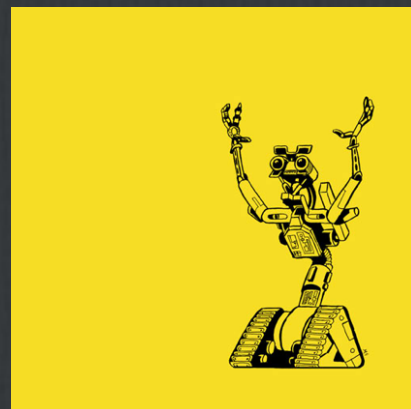




Setup and Demos

Sumobot Jr.

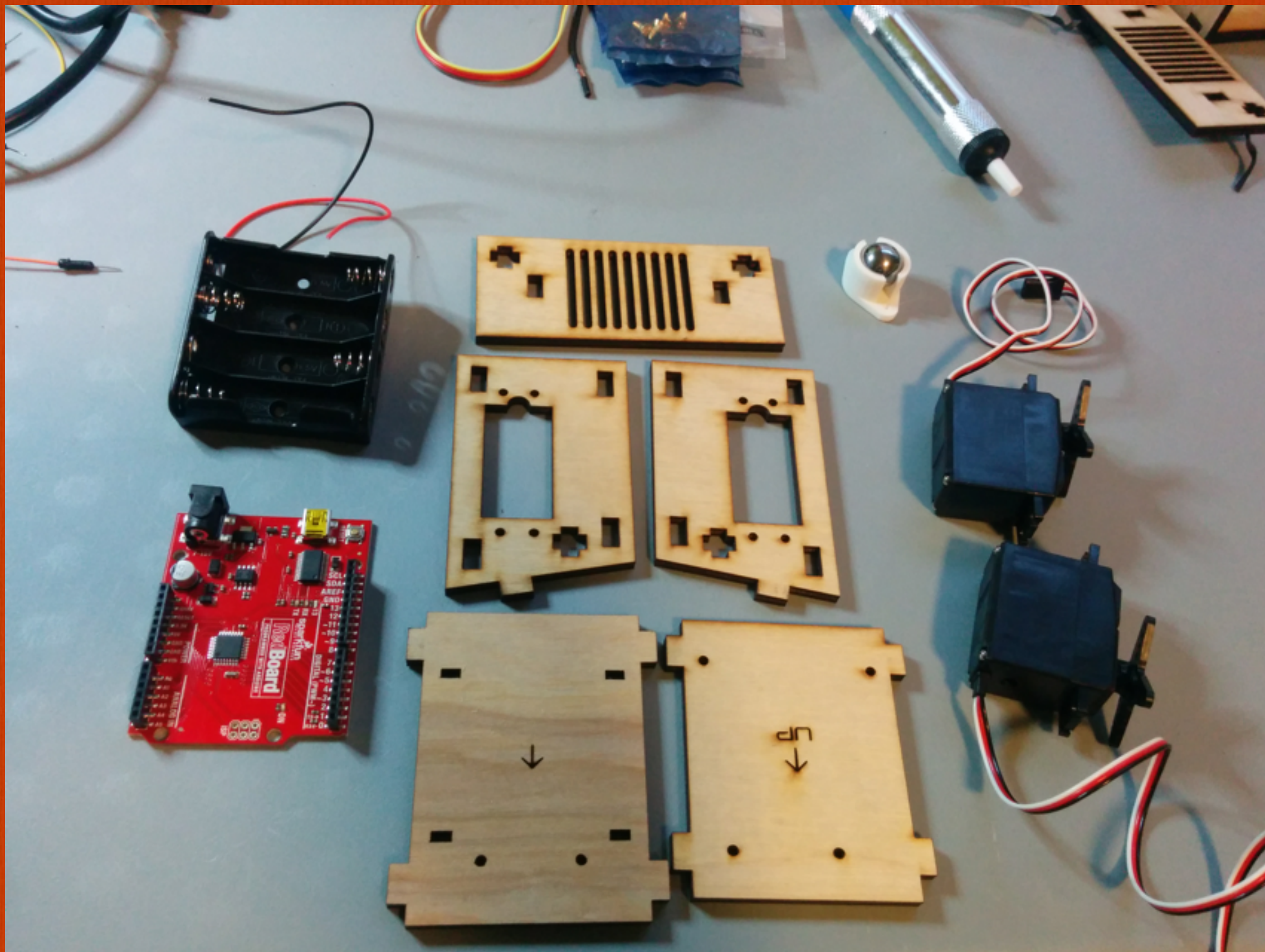
- Pawel Szymczykowski - @makenai
- github.com/makenai/sumobot-jr



Parts

- ☐ **Arduino Uno**
- ☐ **Laser-cut wood frame & wheels***
- ☐ **Two continuous rotation servos**
- ☐ **4x AA battery pack**
- ☐ **3D printed ball caster & 16mm bearing ball (marble)**
- ☐ **#4 3/8" wood screws, rubber bands**

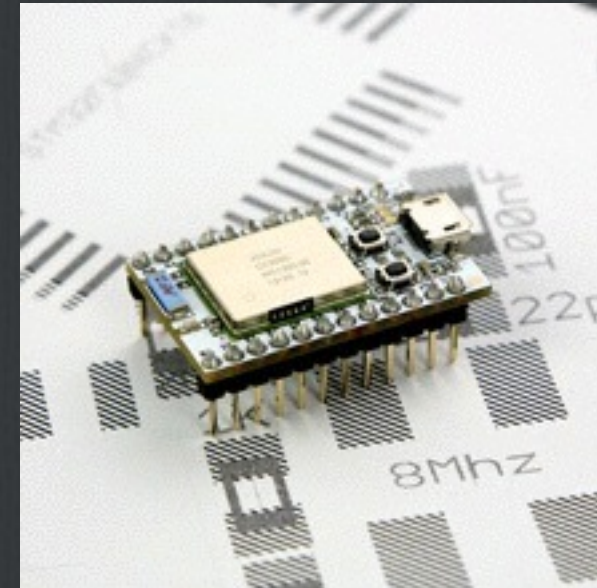
***Fully 3D printed models available**



Wireless



XBeeTM

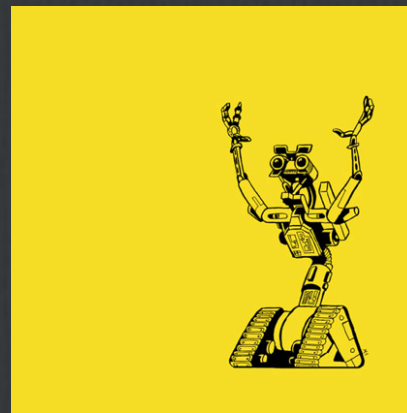




WOULD YOU LIKE TO KNOW MORE?

Javascript + Hardware

☐ Johnny-Five



☐ CylonJS



☐ Tessel



☐ Espruino



Espruino

☐ mysensors.org

Questions

Thank You

https://github.com/TattdCodeMonkey/nodebots_talk/

Rodney Norris Jr.

Software Engineer @ Emma – myemma.com

@TattdCodeMonkey – Twitter / Github

TattdCodeMonkey.com

rodney@tattdcodemonkey.com