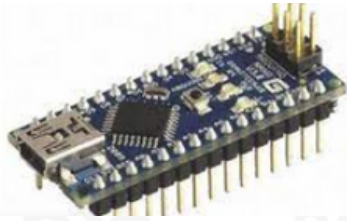


Inventory and Ideas

What do we have?

Arduino UNO/Nano



Micro-controllers
ESP32



Raspberry Pi Pico



Distance sensor



Line following



Servos



Buttons



IMU6050



DC wheel



Brushless propellor



9g Servo



Nema 17 Stepper



Breadboards



wires



Basic Electronics

resistors



LEDs



capacitors



555 timers



IR Recv/Trans



RC PWM Recv/Trans



Wi-Fi/Bluetooth via ESP32



Materials

MDF

Acrylic

PLA

Cardboard

bolts/nuts

glue



Tools and Equipment

Screwdrivers

Craft Knives

Spanners

Multimeters



soldering iron

laser cutter

3D printer



Note: Anything you make must be capable of dissassembly with the exception of the “materials” and “basic electronics” categories, but dont be wasteful

What could you make?

- Remote controlled - Car / Plane / Robot / Machine
- Test rig to learn about and use a device
- Automated robot - line following / obstacle avoidance / other
- Mini game - pinball machine / gameboy
- Interesting motion - self balancing ball or robot / walking robot