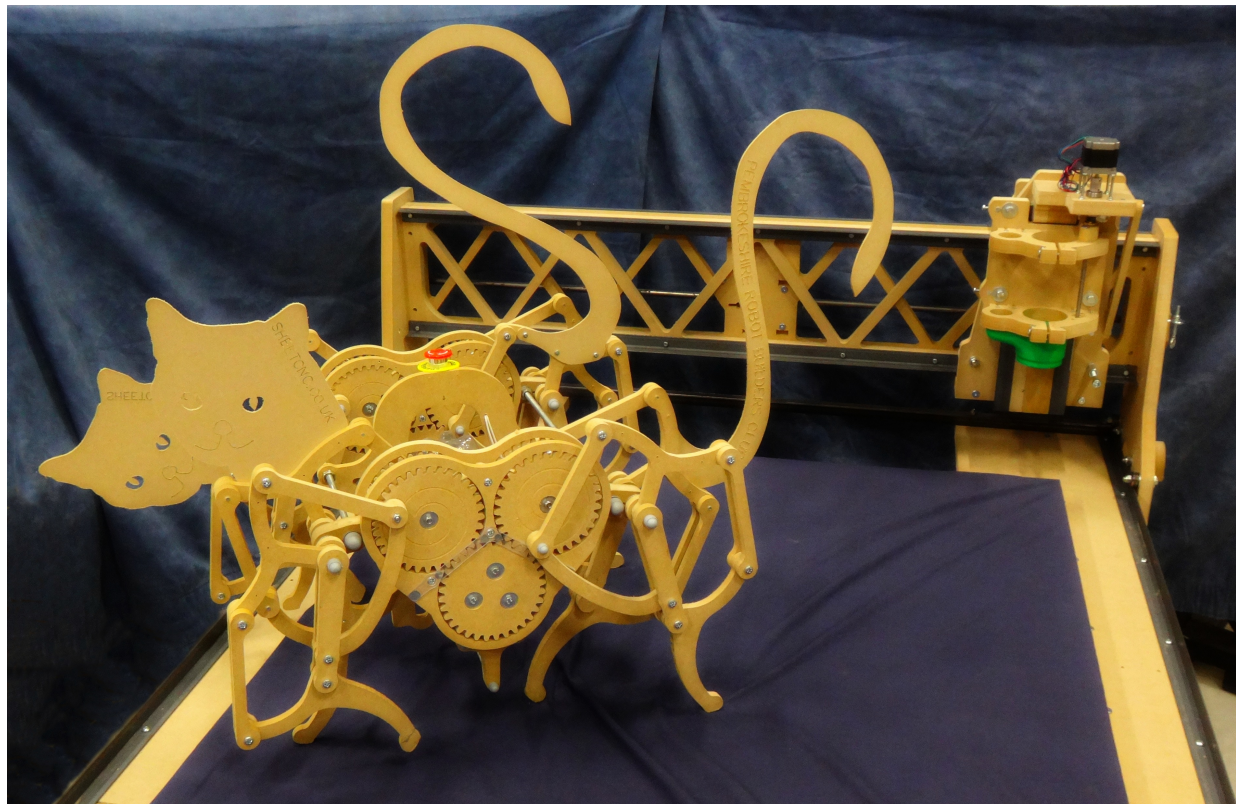


MechanicalCat.org

A quick intro to a
free open-source robot
controller and 2.4GHz link



All-in-One Arduino Robot Controller

Free and Open-Source Hardware / Software

Optional 2.4GHz Link

24.5mm x 23.0mm

Easily programmed in C++ using the standard Arduino IDE and Arduino libraries

0.1" DC Motor Outputs (PWM)

Additional Inputs/Outputs

USB

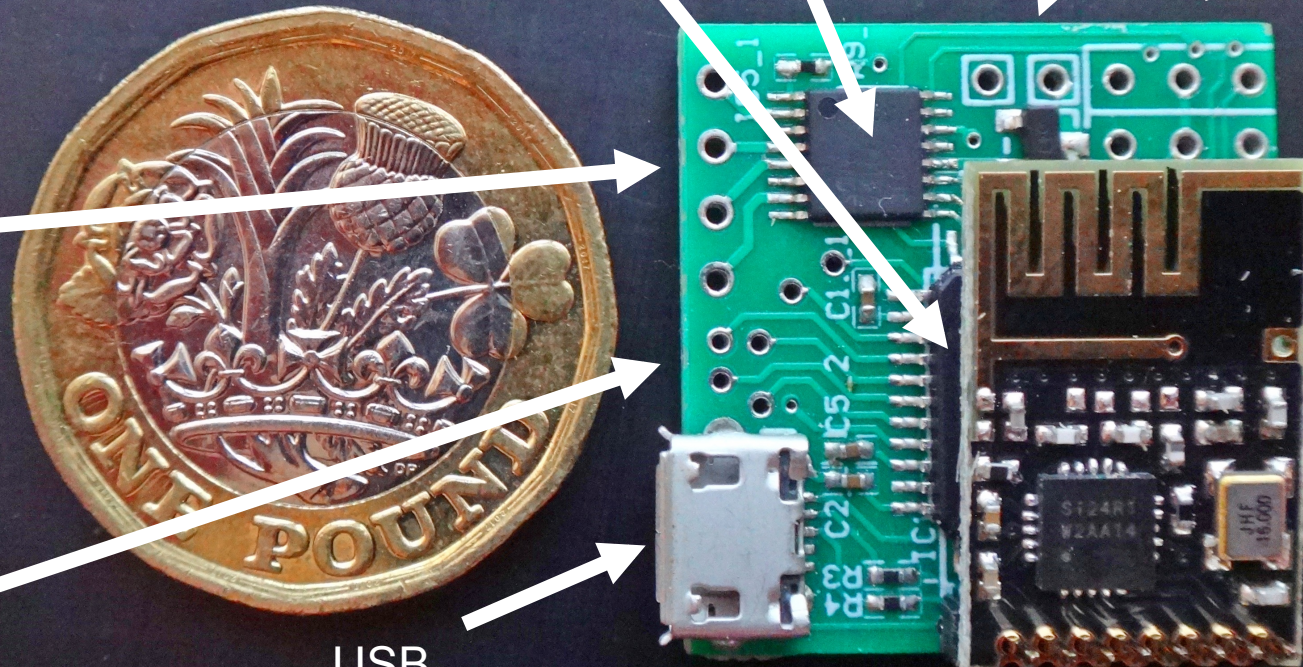
ATmega32U4
Microchip

DRV8833 Dual DC
Motor Controller
1.5A per Channel

0.1" Power header
e.g. 2S LiPo

0.1" Servo Headers

Optional
nRF24L01+
2.4GHz
Rx/Tx
Module



What's It For?

- Make a simple, boring RC system. Or...
- Create a basic autonomous robot. Or...
- Use the radio link to offload higher-level processing to a base station. Or...
- Implement meshnet-linked mini-bots. Or...
- Return telemetry. Or...
- All of those things.

Simple RC System

A budget play-all-day AntWeight robot-wars set.
Used to publicise our maker-space.
Arduino transmitters control the modules in the Ants.
Software is free to download.



How Do I Get One?

Parts cost is about £12. Unit cost of a ready-made batch is about the same. Sourcing options are...

- Download the gerbers, have the PCB made up, and hand-build*. Or...
- Form a syndicate and order a batch of (say) 100 ready-made ones to share. Or...
- Piggy-back a small order on one of our batch orders.
- **We have hand-built about 20 so far, for prototyping and testing. But we really don't recommend it :-)*

www.MechanicalCat.org



For more info, please see the website.

Thanks for your time :-)