

# Aberystwyth Robotics Club

Tomos Fearn

[tomos@aberrobotics.club](mailto:tomos@aberrobotics.club)

Agnieszka Jóźwik

[aga@aberrobotics.club](mailto:aga@aberrobotics.club)

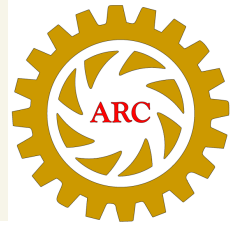


As seen on...

**Cambrian News**

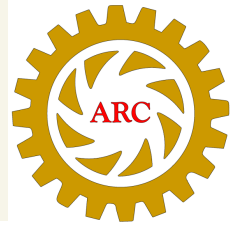


**Wales**Online



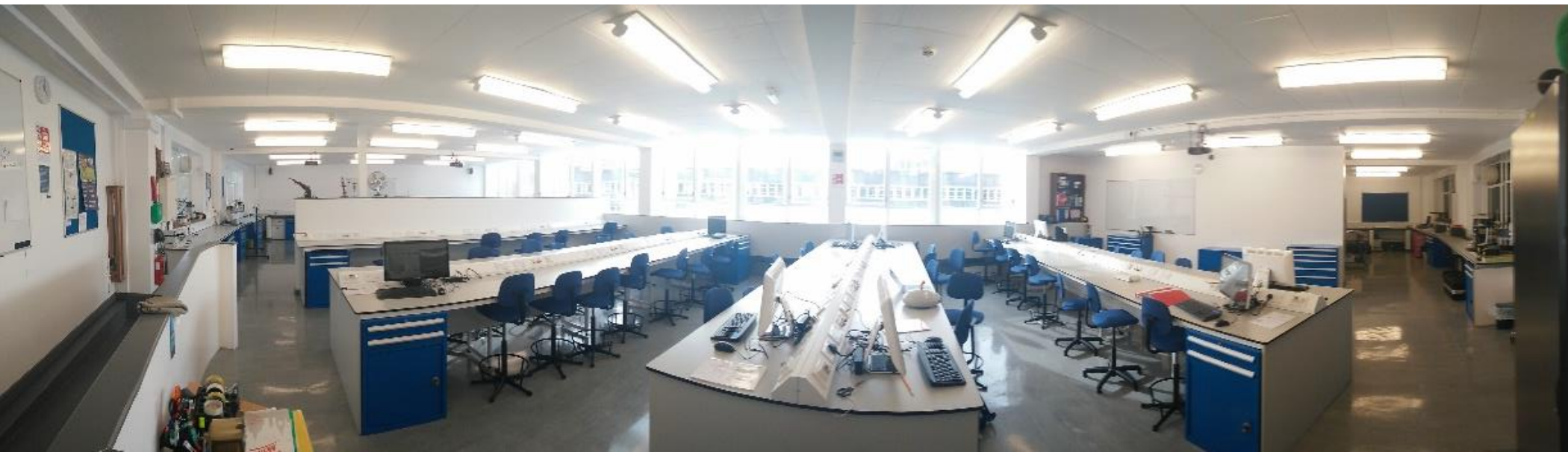
# What do we do?

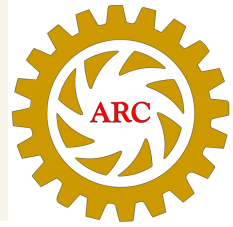
- Outreach project for schools in association with Aberystwyth University.
- Teaching 11-18 year olds programming, electronics and engineering.
- Undergraduate society for students to work on projects.
- Access to hobby/research robots and other robot enthusiasts.



# Where and When?

- Outreach club – Wednesday 3:30-5:30PM
- Students Society – Wednesday 1-3PM
- MP 1.00, First Floor, Physical Sciences.

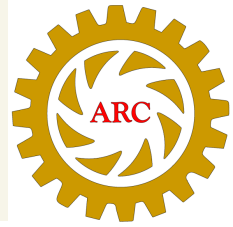




## Valiants (they used to be...)

- Aimed as an introduction to more advanced robotic programming (custom made in the club).
- Arduino, custom PCB
- Ultrasonic with servo
- Infrared (SharpIR) x2
- Encoders
- Speaker and Amplifier
- LDR and LED
- Xbee
- NiMH battery 7.4V, 3000mAh

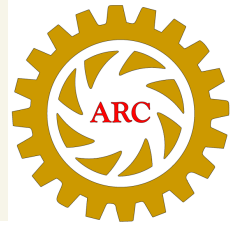




# Black-Bot

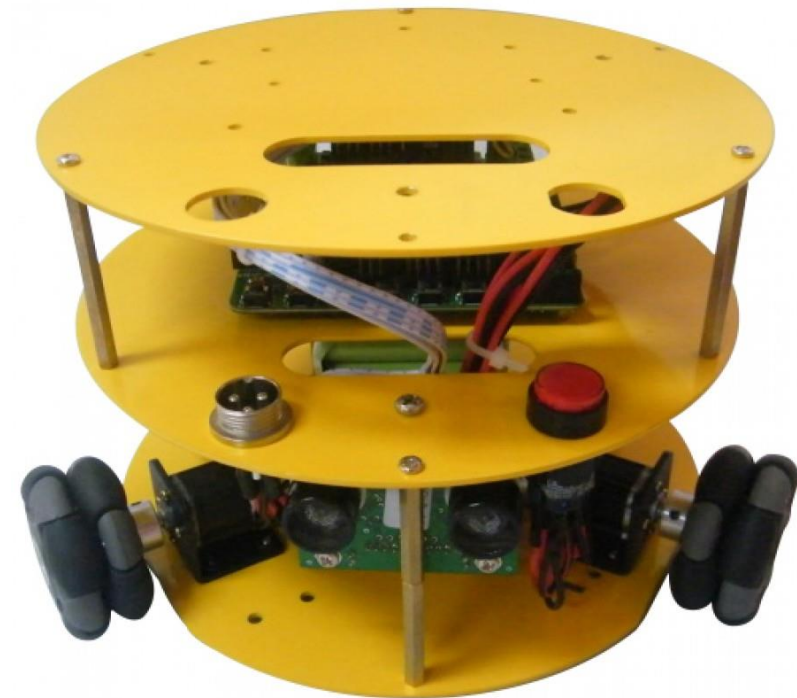
- Aluminium chassis
- 4 wheel drive – motors
- Arduino
- Ultrasonics x2
- Infrared (SharpIR) x2
- ESP WiFi chip – hosting a web page
- LCD Display



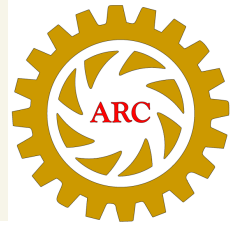


# Sherbert Lemon

- 3 omni-wheels with encoders
- 3 ultrasonic sensors
- Arduino and Motor Controller
- Bluetooth
- IMU sensor
- NeoPixel LED strip

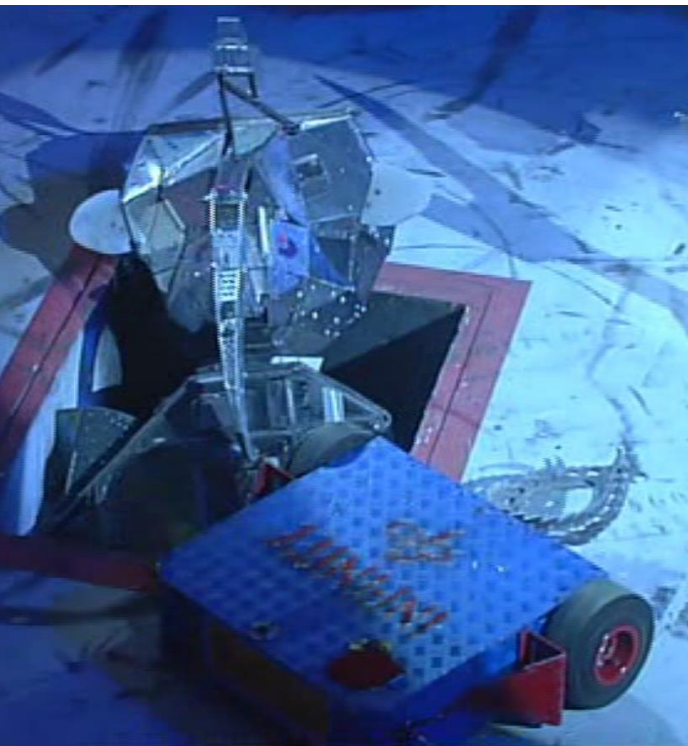


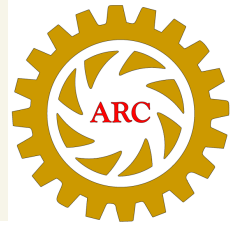




# Robot Wars

- We were on BBC show Robot Wars and will be again soon!



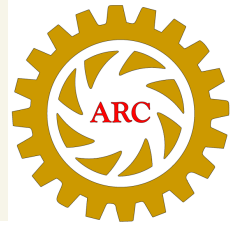


## Why would you benefit?

- 1) It's fun!
- 2) Collaborative working and debugging.
- 3) Developing engineering & programming skills.
- 4) Make friends.
- 5) Great for further work in teaching, research.

**Excellent to put on the CV!**





## How to join

- 1) All the information you will need.....
- 2) Website: [www.aberrobotics.club](http://www.aberrobotics.club)
- 3) Email: [students@aberrobotics.club](mailto:students@aberrobotics.club)

