

technocamps

Inspiring | Creative | Fun
Ysbrydoledig | Creadigol | Hwyl



www.technocamps.com



S4A - Scratch for Arduino

S4A stands for Scratch for Arduino, the software which can be downloaded onto either Mac, Linux or Windows looks similar to “Scratch” but there are some additional blocks on this enabling you to interact with your Arduino. Participants will be programming their LEDs to flash, and will move a robot around how they instruct it to using a motor controller and provided chassis. Familiarity to the drag and drop programming environment “Scratch” prior to the workshop is encouraged, so the interface is easily recognised.

The Arduinos, magician chassis, motor shields and servos can be purchased from www.proto-pic.co.uk, selling electronics and prototyping kits for hobbyists and enthusiasts.



Skills

- Problem Solving
- Communication
- Improving Own Learning and Performance
- Working with Others
- ICT
- Numeracy
- Creativity

Key Learning Outcomes

- Familiarity with the Micro-controller, Arduino.
- Developing programming skills.
- Basic understanding of robots and electronics.
- Improving ICT skills.

Workshop Outline

- Introducing electronics and the Arduino.
- Enhance programming skills using the S4A.

Why Technocamps?

Technocamps is an exciting project that provides free workshops to young people on programming, robotics, game design, app development and much more... It is about getting young people (11-19) in Wales excited about Computer Science and STEM and challenging them to think about the world around them in a different way.