

technocamps

Inspiring | Creative | Fun
Ysbrydoledig | Creadigol | Hwyl



www.technocamps.com



Lego Zip-wire

The LEGO Mindstorms NXT is a programmable robotics kit, allowing us to create various robots using our building skills and most importantly our programming skills. For this 3-day bootcamp, the robotics kits will be used for attendees to work like mechanical engineers and build a robot that checks the integrity of a zip-wire, sending GPS signals when problem areas along the wires are located. This will be achieved in teams and points will be given for team work, smaller challenges and the group's ability to plan and organise the team and their robot.



Skills

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

Key Learning Outcomes

- Understanding basic concepts within both Computer Science and Mechanical Engineering.
- Using the NXT robotics kits to develop team's project.

Workshop Outline

- Team building
- Robotics problem Solving
- Practical
- App Inventor

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.