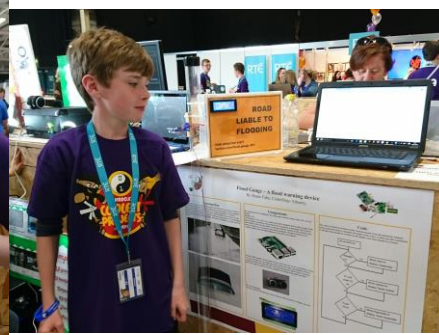# Bodgers

Welcome back everyone. We have 14 sessions left this year.
Here are some of the topics we'll be covering.

- Robotics
- Raspberry pi and Sensors
- Electronics Theory
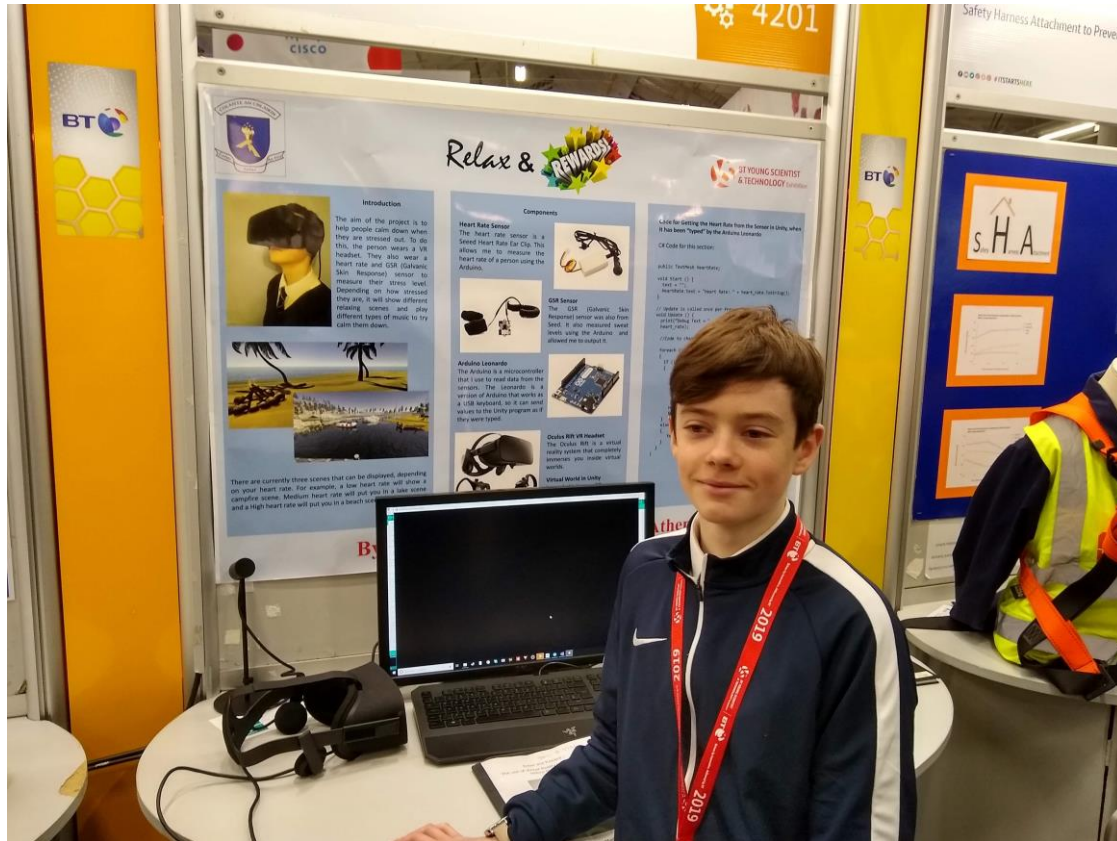- Arduino
- Coolest Projects

CoderDojo Athenry   Bodgers

Coolest Projects

Takes place on the 5th May in the RDS in Dublin there are 7 categories

- Visual programming (previously Scratch)

- Web

- Games

- Mobile Apps

- **Hardware:** Robots, machines and hardware hacks. Any project that uses hardware such as the Raspberry Pi, Arduino or Adafruit boards to influence the physical world.

- Advanced programming (previously Evolution)

- 3D Design & Animation (Coolest Projects International & others)

BT Young Scientist & Technologist Exhibition

Well Done to Luke and Seán from the Hackers group on their projects.

Some projects from the BTYSYE

- Automated water system using renewable energy
- Active road stud(cat's eyes)
- Slurry Gas Alarm
- IOT rain gauge
- Freshgraze, Automated electric fence
- Item tracking cupboard
- Sliotar tracking system
- Quad Safety
- Lamb watch
- Smart home for the hearing impaired

Robots

```python
from gpiozero import Motor
from time import sleep

motor = Motor(forward=4, backward=14)

while True:
    motor.forward()
    sleep(5)
    motor.backward()
    sleep(5)
```

```python
from gpiozero import Robot
from time import sleep

robot = Robot(left=(4, 14), right=(17, 18))

for i in range(4):
    robot.forward()
    sleep(10)
    robot.right()
    sleep(1)
```