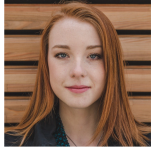


## Junior Robotics Engineer

# Eleanor Griffiths



### EXPERIENCE

**Robotics Software Intern (Summer Placement)**, Ocado Technology, H-atfield *Jun 2025 – Aug 2025*

Completed a 12 week summer placement in the mobile robotics team at Ocado Technology.

- Developed **3 ROS nodes** in Python for path planning and obstacle avoidance on a prototype mobile robot platform
- Contributed to a computer vision pipeline using OpenCV and a depth camera, achieving **96% object detection accuracy** on warehouse items at distances up to 2 metres
- Ran **40+ test cycles** in a simulated warehouse environment using Gazebo, logging performance data for the navigation stack
- Presented a technical demo to the wider engineering team of **25 staff** at the end of the placement

**STEM Workshop Facilitator (Part-time)**, We The Curious, Bristol *Jan 2024 – May 2025*

Delivered robotics and coding workshops to school groups at Bristol's science centre.

- Facilitated **60+ workshops** for groups of up to **30 children** aged 7 to 14, using LEGO Mindstorms and micro:bit
- Developed 2 new workshop formats adopted across the centre's education programme

### CERTIFICATIONS

**IET Graduate Member (GMIET)**, Institution of Engineering and Technology *Sep 2025 – Sep 2025*

### PROJECTS

**Autonomous TurtleBot3 Navigation (Final Year Project)** *Sep 2025 – Apr 2026*

Implemented autonomous navigation for a TurtleBot3 in an unknown indoor environment using SLAM and ROS2.

- Configured and tuned **Nav2 stack parameters** for reliable obstacle avoidance in a 6m x 8m test arena
- Achieved mapping accuracy within **5cm** using a Hokuyo LiDAR and cartographer SLAM
- Robot completed a **12 waypoint navigation course** with a 94% success rate over 50 test runs

### EXTRA CURRICULAR ACTIVITY

**UWE Robotics Society President & UK Robotics Challenge Team Lead** *Sep 2024 – May 2026*

Led a team of **8 students** to **2nd place** at the 2025 UK Robotics Challenge, competing against 18 university teams. Managed a build budget of **£1,200** and coordinated weekly build sessions over 6 months.

### PROFILE

Robotics and Autonomous Systems graduate from the University of the West of England with a summer placement at **Ocado Technology**. Developed path planning algorithms in **Python and ROS** for mobile warehouse robots. Contributed to a vision system achieving **96% object detection accuracy**. Led a university team to **2nd place at the UK Robotics Challenge** (18 competing teams). Graduated with **First Class Honours (74% average)** and hold IET graduate membership.

### EDUCATION

**BEng (Hons) Robotics and Autonomous Systems in Robotics**

University of the West of England, Bristol  
*Sep 2022 – Jun 2026*

### SKILLS

- ROS / ROS2
- Python
- C++
- OpenCV (Computer Vision)
- Gazebo (Simulation)
- SLAM & Navigation
- SolidWorks
- Arduino & Raspberry Pi
- Sensor Integration (LiDAR, IMU, Cameras)
- PCB Design (KiCad)
- Linux (Ubuntu)
- Git & GitHub

### LANGUAGES

- English - Native
- Welsh - Basic