

## Artur Alexander Rojewski Rodriguez

An Enthusiastic AI & Computer Vision Engineer eager to contribute to team success through hard work, technical expertise and attention to detail. Currently exploring the world of Autonomous Systems as a Perception Developer at Oxford Brookes Racing Autonomous. Experienced in Deep Learning, Object Detection, and Simulation with ROS2 & Unity. Highly persistent—when I set my mind on something, I don't stop until I achieve it.

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### Education

#### Oxford Brookes University

Bachelor in Computing

Oxford, United Kingdom

September 2024 – Present

- Currently in the final year of a Bachelor's degree in Computer Science, expecting to graduate with a 1st.
- Completed coursework in: Advanced Object-Oriented Programming - Foundation of Data Analytics - Artificial Intelligence - Cloud Computing and the Internet of Things - Computing Project - Principles of Secure Operating Systems - Software Engineering - Software Project Management.

#### MSMK University of Science and Technology

Bachelor in Computing

Madrid, Spain

October 2022 – June 2024

- Attended MSMK (Madrid) for the initial two years of my Robotics and Artificial Intelligence degree, successfully completed 15 courses.
- Achieved Distinction in the following subjects:  
Machine Learning (R Studio, BigML and PowerBI) - Artificial Intelligence (Pytorch and Tensorflow) - Database Design (MySQL, Excel) - Applied Programming and Design (Node.js, JS, MongoDB) - Development of Websites (HTML, CSS, JS, and Amazon Web Services) - Computer Networks (Cisco Packet Tracer) - Cybersecurity

### Experience

#### Oxford Brookes Racing Autonomous

Perception Developer (YOLO / Python)

Oxford, United Kingdom

September 2024 – Present

- Developing and optimising deep learning-based object detection models (YOLOv8, YOLOv11) for autonomous racing.
- Improving cone detection accuracy and inference speed in dynamic environments using dataset augmentation and real-time testing in Unity.
- Evaluating model performance with key metrics such as mAP@50-95, Precision, Recall, and Inference Time.
- Integrating Perception systems with ROS2 for real-time sensor data processing.
- Utilizing PyTorch, OpenCV, and TensorFlow to enhance neural network efficiency and model optimization.

#### Azul Villa Properties

Data Analyst and Web Developer

November 2023 – Present (Remote)

- Designed and maintained company databases to optimize property management and client data handling.
- Developed and managed the company's website, ensuring responsive design.
- Integrated web-based analytics tools for tracking user engagement and improving SEO strategies.
- Utilized MySQL, PHP, and JavaScript for dynamic database interactions and real-time property updates.

## Certificates & Qualifications

Pearson BTEC Level 5 Higher National International

Madrid, Spain

## Skills & Interests

**Technical:** Deep Learning, Computer Vision, ROS2, Unity, Object Detection, Data Annotation, Model Optimisation

**Programming:** Python, C++, JavaScript, HTML, CSS, React, LUA

**Tools:** TensorFlow, PyTorch, OpenCV, Git, Linux, Roboflow, YOLO

**Interests:** Autonomous Systems, Robotics, AI Research, Computer Vision, Deep Learning, AI Automation