

AARON BLANCO, MIET

ROBOTICS GRADUATE

+44 7305 080 671
aaronnblanco@gmail.com
London, UK
arnblnc.github.io

PROFILE

MSc Robotics graduate, Mechanical Engineer and MIET specialising in ROS2, Python, and machine learning. Passionate about bridging hardware and software to design intelligent, real-time autonomous systems

PROJECT EXPERIENCE

ROS2 Autonomous Target Tracking System

Personal Project | 2025

- Built multi-node ROS2 OOP architecture for autonomous target tracking.
- Designed a proportional controller for real-time steering and navigation.
- Developed custom ROS2 publishers and services using CLI tools.

EMG Signal Classification & Machine Learning

King's College London | 2023

- Developed MATLAB pipelines for EMG filtering, extraction, and segmentation.
- Trained SVM and LDA classifiers, achieving 95.2% SVM accuracy.
- Optimised the SVM model for real-time robotic arm training.

Robotics Motion Planning

King's College London | 2023

- Implemented RRT, PRM, and A* algorithms for autonomous robotic navigation.
- Led collaborative development of highly efficient RRT and A* algorithms.
- Compared algorithm efficiency to optimize pathfinding in complex environments.

WORK EXPERIENCE

Academic Tutor (Mathematics)

Private | 2026 - Present

- Mentoring students in A-Level Mathematics, breaking down complex calculus and algebraic problems into logical, first-principle steps.
- Conducting test-paper analysis and provides structured feedback to improve problem-solving methodology and technical communication.

Restaurant Server

Bali Bali, London | 2022 - Present

- Managed high-volume service and POS for 80+ daily guests.
- Coordinated kitchen communication and trained new front-of-house staff.
- Led daily operations, handling cash reports and inventory management.

Model & Actor

Freelance | 2013 - Present

- Featured in global commercial campaigns such as Samsung, Virgin Media, Apple and ASOS.
- Adapted quickly to creative directives in high-pressure environments.
- Developed strong communication and presentation skills.

EDUCATION

2022 - 2024

KING'S COLLEGE LONDON

- MSc Robotics

2019 - 2022

BRUNEL UNIVERSITY LONDON

- BEng Mechanical Engineering (2:1)

SKILLS

- Programming:** ROS2, Python, C++, MATLAB, Arduino
- Design & Simulation:** CAD (Fusion 360, Creo), ANSYS Workbench (CFD, Mechanical)
- Miscellaneous:** Git, GitHub, Windows, Mac OS, Linux, Microsoft Office (Word, Excel, PowerPoint)

LANGUAGES

- English (Fluent)

INTERESTS

- Motorsport & Simulation:** Competitive go-karting, following GT racing, and sim racing.
- Athletics:** Active basketball player and dedicated to weekly gym training.
- Creative:** Passionate about discovering new music and casual vocal performance.

MEMBERSHIPS

- Member of the IET (MIET)