

Ben Mallinson

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Location: United Kingdom

Creative Engineer | BEng Robotics, First Class | IET Prize | AI Trainer | Arkwright Scholar

Engineer with strengths across mechanical design, electronics, and software, able to bridge design and implementation. Experienced in contributing to codebases, integrating software with hardware platforms, and progressing designs from CAD to functional prototypes. Recipient of the IET Prize for marine robotics research. Motivated to apply technology to conservation, innovation, and real-world problem-solving.

Experience

AI Trainer - DataAnnotation, Remote (01.2025–Present)

- Improve AI models by producing high-quality training data, specialising in physics, engineering, and coding.
- Navigate unfamiliar codebases, solve complex technical challenges and follow instructions precisely.
- Contribute to a diverse range of projects, including STEM problems, multimodal reasoning, general software development, physics simulations and ecoinformatics data analysis.

Undergraduate Research - University of the West of England/BRL, Bristol (2021–24)

- Designed a novel 'Variable Buoyancy Data Transmitter' for my final project. This involved developing an innovative buoyancy adjustment mechanism which was integrated into a functional electromechanical prototype.
- Worked on numerous robotics projects at every level of development (design, software, hardware, integration, and communication)
- Graduated with First Class Honours and was awarded the IET (Institution of Engineering & Technology) Prize.

Work Experience - Heatherwick Studio, London (2019)

- One week placement with design teams at one of the world's leading architecture and design studios, gaining insight into large-scale urban innovation.
- Produced design proposals with supporting CAD renders for client briefs.
- Gained experience in cross-disciplinary workflows and creative ideation processes.

Work Experience - Mine Kafon, Maastricht (2018)

- One week fully immersed in a humanitarian start-up developing landmine-clearing drones.
- Designed CAD models for 3D printing and proofread English promotional materials.
- Gained insight into logistics, product development and stakeholder communication.

Other Experience

- **Design & Implementation:** Built a custom high-spec sound system rented out for events · Completed a full custom motorhome conversion (off-grid, livable year round).
- **Construction & Fabrication:** Assisted in RIBA-awarded treehouse builds · Blacksmith assistant at Alex Pole Ironwork · Boomtown Festival production crew (carpentry, electronics, automation).
- **Hospitality:** Pizza Chef at *Chariot of Fire*.

Education

B.Eng. (Hons) Robotics, First Class — UWE Bristol (2021–24)

- Key modules: Electronics Design · Control Systems · Vision · Robot Architectures · Signal Theory · Machine Learning · SLAM · HRI · ROS
- Worked out of the Bristol Robotics Laboratory (BRL), the leading and largest academic centre for multi-disciplinary robotics research in the UK.
- Awarded the IET Prize (2024) for outstanding academic achievement.

A-levels — Mathematics, Physics, Design & Technology — Bryanston (2020)

Awards & Certifications

- IET Prize (2024)
 - Arkwright Engineering Scholarship (2018)
 - Full UK Driving Licence (2020) RYA Powerboat Level 2 (2022)
 - PADI Open Water Diver (2013) · SSI Advanced Diver (2024).
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Skills

- **CAD & Design:** Parametric Modelling · Simulations · Renders · Digital Illustration & Typography
 - **CAM & Prototyping:** CNC Machining · 3D Printing · Carpentry · Forging · Fabrication Techniques
 - **Electronics:** PCB Design · Microcontrollers · SPICE Sims · Sensors · Actuators · Assembly · Debugging
 - **Programming:** C · Python · MATLAB · JavaScript · HTML · CSS · Linux · Git · Docker
 - **AI & Data:** STEM Reasoning · Model Architectures · Model Evaluation · Prompt Engineering · Parameter Tracking & Analysis
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Volunteering

Marine Conservation Volunteer, Costa Rica (2021)

- One week of marine ecosystem data collection, mangrove replanting and turtle tagging.
- Gained valuable insight into modern marine data collection techniques and current limitations.

Workaway

- Multiple workaway experiences mainly on permaculture farms for sustainable living.