

CHRISTOPHE FOYER

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French and US citizenships | Eligible to work without restriction in the UK (settled status), USA and EEA

EXPERIENCE

Independent contractor - Remote | 2025 - Present

Machine Learning Consultant - AgTech client (vertical farming)

- Led the transfer of ML intellectual property from a robotics startup, ensuring business continuity for robotic crop harvesting.
- Advised on Computer Vision strategy for autonomous harvesting systems.
- Rebuilt MLOps pipelines for automated training, evaluation, and deployment across multiple ML projects.

Tortuga Agtech - Remote, UK-USA | 2021 - 2025

Machine Learning & Computer Vision Engineer (2023 - 2025)

- Designed ML infrastructure from training pipelines to deployment environments.
- Mentored junior engineers and managed labeling team priorities.
- Optimized distributed training and hyperparameter tuning, maintaining backward compatibility across projects.
- Migrated labeling workflows to CVAT and new providers, reducing annotation costs by 50%+.

MLOps Engineer (2022 - 2023)

- Unified training-inference interfaces for all deployed ML models.
- Overhauled on-robot ML interfaces (Python & ROS), improving reliability.
- Built new end-to-end ML pipelines for robotics projects in production.

Robotics Engineer (2021 - 2022)

- Sole UK-based robotics engineer; provided field deployment and GMT coverage.
- Developed visualization and ML infrastructure (Docker, Plotly, AWS).

Maui63 - Remote, NZ | 2021

Software & ML Volunteer

- Built OpenCV/YOLOv4-based labeling and post-processing tools for marine mammal monitoring.

Earlier Experience

- Mechanical Engineer, TWD (London, UK | 2018 - 2019) - designed maritime equipment and developed internal Python tools for structural analysis.
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EDUCATION

University College London - London, UK | 2019 - 2020

MSc Scientific Computing - Distinction

- Dissertation: *B-Spline Active Contours for the 3D Segmentation of Vascular Structures*

Washington University in St. Louis - St. Louis, USA | 2014 - 2017

BSc Mechanical Engineering

- Final Project: *Custom FEA and ray-tracing software for water-based lenses in photovoltaic arrays*
 - Founder: Design/Build/Fly Team - placed 12th/139 at AIAA DBF 2017
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SKILLS

Core Expertise: Computer Vision, Machine Learning Infrastructure, MLOps, Robotics, Distributed Training, Model Deployment

Programming: Python, SQL, Bash, HTML, CSS | working knowledge of JavaScript, C++, Rust

Tools & Libraries: PyTorch, Docker, PostgreSQL, ROS, AWS, Airflow, OpenCV, Ray, PyTorch Lightning