JONAS EMILIO PETERSEN

27 Mile End Road
London, E14TP
je77petersen@gmail.com   +49 1575 2575024   *Website* *GitHub* *LinkedIn*

Computational engineer (Cambridge MPhil, Imperial MEng) with AI/robotics expertise, published research, AI startup experience: co-founded and scaled to €500k revenue in <12 months (LLMs). Ex-BCG; available: 10/25

SKILLS & INTERESTS

AI & Robotics: Python, C (embedded systems), data pipelines, RL, LLMs/SLMs, ROS, PyTorch, OpenCV
Miscellaneous: German (native), English, tennis, chess, jazz, robotics (SO-101, *human2robot*)

EDUCATION

University of Cambridge   **Cambridge, UK**
MPhil, Nanotechnology - Distinction (highest honors)   *Sep 2022 – Jul 2023*

Imperial College London   **London, UK**
MEng, Mechanical Engineering - Distinction, Dean's List (top 10% of the cohort)   *Sep 2018 – Jul 2022*
- Robotics, ML, Advanced Computing & Mechatronics, Statistics, Embedded C for Microcontrollers
- Computational thesis on wildfire-suppression using Monte Carlo Tree Search: published *first-author paper*

Sachsenwaldschule Gymnasium Reinbek   **Hamburg, Germany**
German general matriculation standard (Abitur)   *Sep 2009 – Jul 2017*
- Valedictorian: 1.0 (96.33%); all 3 subject awards for best student of the year (Maths, Chemistry & Physics)

WORK EXPERIENCE

Media Press Group   **London, UK**
CEO UK (previously: Process Automation Engineer)   *Sep 2023 – Present*
- Launched UK, scaled to 6 people. Python + N8N for sales automations, productised AI with group CTO

K2 AI   **London, UK**
Co-founder   *Sep 2023 - Dec 2024*
- Grew to 10 employees (Sales & Tech), 3 hackathons, 3 AI-driven automation projects, >500kEUR revenue
- Conceptualised 4 AI-powered products, receiving positive feedback from 30+ CFOs (100+ employees)
- Developed a task mining SaaS MVP using SLMs; reintegrated part of the team into parent organization

Boston Consulting Group   **Munich, Germany**
Visiting Associate (built a PowerBI costs forecasting tool; received full-time offer)   *Jun – Aug 2021*

Basler AG   **Hamburg, Germany**
R&D Intern (Python firmware unit tests & object detection with OpenCV)   *Aug 2017*

RESEARCH EXPERIENCE

Modelling and optimization of extinguishing actions for wildfire suppression   **London, UK**
Master Thesis, Imperial College (First Class Honors)   *Oct 2021 – Jul 2022*
- Developed an MDP wildfire model using stochastic fire particles; included water mist & firebreaks
- Optimised wildfire suppression with Monte-Carlo Tree Search (MCTS); verified against real wildfires
- *First-author paper* published in the prestigious journal *Combustion Science & Technology (2023)*

Embedded C with Microcontrollers   **London, UK**
ECM, Imperial College (First Class Honors)   *Oct – Dec 2021*
- Programmed in C on a PIC18: real-time control for an automatic outside light (incl. daylight saving time)
- Built a color-detecting, smart steering electric toy car in a team of two; won the cohort competition

Biomechanical rehabilitation exoskeleton (arm) for Long-COVID patients   **London, UK**
Design, Make & Test, group project, Imperial College (First Class Honors)   *Oct 2020 – Jun 2021*
- Built a gravity-compensating shoulder exoskeleton, PM for group of 5; PID control (4 sensor inputs)
- Worked with an Arduino Mega + amplifier for encoder & strain gauge inputs; conducted user testing

PROJECTS

Lattice – Coordination and Data Layer for the Robotic Age   **London, UK**
Co-founder (Website and GitHub repo)   *Apr 2025 – present*
- Training data platform/factory: imitation learning from human hand video recordings, not teleoperation
- Currently: chess board + Hugging Face SO-101 experiments, Isaac Lab simulations, ROS, synthetic data
- Won 2 hackathons in Munich (ExVo) and London (>200 participants) & secured YC interview