

# JONAS EMILIO PETERSEN

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[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 Gym simulations, ROS, synthetic data
- Won 2 hackathons in Munich ([ExVo](#)) and [London](#) (>200 participants) & secured YC interview