

Relevant Experience

Research Assistant, University of Cambridge

11/2023 – Present

- Work-In-Progress: Using machine learning at pre-CFD stages to accelerate e-propulsion design. (3-month FTC)
 - Created automated ML pipeline spanning: dataset creation, CFD-to-Feature processing, training, model eval. and ranking (MATLAB).
- Skills: Python, Pandas, Machine Learning, Research, Computational Fluid Dynamics (CFD), MATLAB, Data Analysis, Communication.

Research Intern, Imperial College London

07/2023 – 09/2023

- Showed non-dimensional parameter decomposition yields ~2.5% NN model accuracy for large samples (~1M) in linear subsonic flows.
 - Created, curated, and cleaned 1.59 billion datapoint flutter instability dataset for neural network (NN) training.
 - Met with two supervisors weekly to discuss blockers and liaised with PhD candidates to augment my aerophysics knowledge.
 - Negotiated first joint research internship between the University of Cambridge and Imperial College London in department.
- Skills: Python, Pandas, Polars, Machine Learning, Latex, Research, Computational Fluid Dynamics (CFD), MATLAB, Communication.

Technical Project Management Intern, Amazon

03/2022 – 09/2022

- Developed data (JSON) processing backend for automated Apple Maps integration and maintenance of 70,000+ lockers & counters worldwide.
 - Created automated ticket sync. system between Amazon and largest global locker maintenance partner, spanning 12,500+ yearly fixes.
 - Liaised with EU stakeholders in Ricoh and Amazon Hub Tech Ops., to deliver a ticket sync. integration aligned with requirements of both.
- Skills: Java, JavaScript, SQL, AWS CloudFormation, AWS Lambda, Various APIs, Communication, Public Speaking.

Automation Software Controls Engineering Intern, Tesla

09/2021 – 03/2022

- Produced ML-based CUS test reduction system, decreasing usage by ~18.9%, leading to ~\$104,500 in yearly savings.
 - Created pack change date co-pseudonymisation script which was approved to aid study of 600,000+ legacy S and X EVs.
 - Adapted test equipment to minimize labour involvement, decreasing process time by ~96.7%, leading to ~\$10,200 in yearly savings.
 - Updated transport application to eliminate opportunity for a type of human error, saving an estimated ~\$9000 per year.
 - Collaborated with both interns and senior colleagues (EU and US); presented to leadership (EU and US); 2 proposals approved.
 - Became first first-year in department to intern at Tesla.
- Skills: Python, Pandas, SQL, MATLAB, SolidWorks, LenMark 3D, C#, LabView, Research, TestStand, Excel, Presentation Giving, Communication.

Note: Descriptions high-level due to NDAs. References available upon request. Human interviews preferred. More details available on LinkedIn.

Education

BEng, (Product) Design Engineering, Imperial College London

2020 – 2023**

Design Engineering is about generating creative, human-centred solutions to engineering problems. **Leaving degree for work.

Relevant Modules: Computing 1 (Python), Computing 2 (JavaScript), Engineering Mathematics (MATLAB), Electronics 1 (MicroPython, C++).

Awards: Top 40 finish in Black Heritage Undergraduate of the Year Award. Notables: Interrupted studies in 2021; did two 6-month internships.

A-Levels, Olchfa School

2018 – 2020

A-Level: A*A*A*A – Top 0.83% of students: Including an A* in Mathematics and an A* in Graphic Design. AS-Level: AAAAA – 94% on average.

Other Experience

Personal Project: ATTOUA – “Automated Time Tracking, Organisation and University Assistant”

07/2020 – 03/2021

- Made self-management app. Developed task prioritisation algo. Built SQL backend. Designed and programmed GUI, with “task wrapping”, etc.

Personal Project: ADEIA – “Artificial Design Engineering Interview Assistant”

11/2019

- Made robot tank with app-based user control and ultrasonic-sensor-based autopilot (C++, Java). Equipped with speakers, it answered some of my interview questions with pre-prepared TTS answers based on online research and FOIA. Idea inspired by Cambridge-sponsored HE+ sessions.

Customer Advisor, Part-time, BT

10/2019 – 03/2020

- Answered queries in a fast-paced, independent, call centre environment while targeting 5 minutes per call and 70%+ first call resolution rates.
- Resolved mobile and billing objections and conflicts, preventing said objections from escalating to the manager(s).

Learning Coach, Part-time (Volunteering), Olchfa School

09/2018 – 03/2019

- Helped students with subjects and Miss Francis with teaching class sizes of 16 to 30 students, ~twice a week. 22 pupils answered my survey:
- ~91% of surveyed pupils agreed with "Eryk provided useful feedback"; ~86% agreed with "Eryk was an effective lecturer/demonstrator."
- 100% agreed with "Advice & tips provided were clear and organized"; "How would you rate Eryk's levels of effort?" 100% "Very Good" or better

Courses & Languages

Languages: English (Fluent/Native), Polish (Fluent/Native).

LinkedIn Skill Assessment Badges: C++, Python, MySQL, Photoshop, Word, PowerPoint, Excel, AWS, Git, REST APIs.