Peter Eriksson

35 Scrub Rise, Billericay, Essex, CM12 9PG
07710022997 | peterweriksson@hotmail.com

EDUCATION

University of Bath **2022-2027**

MEng Mechanical Engineering

- **Grades:** 1st year: **78.2%** average 2nd year: **75.6%**
- **Honors:** Commended by Board of Examiners for Programmes for excellent work in 2023/24 academic year assessments

Westcliff High School for Boys **2015-2022**

*Mathematics **A*** *Physics **A*** *Chemistry **A*** *Economics **A***

WORK & LEADERSHIP EXPERIENCE

Callen-Lenz – (BAE Systems) **Salisbury, Wiltshire**

Year in Industry placement student **[Aug 5 2024] – [Aug 1 2025]**

Completed three cross-functional rotations at a leading UK defence partner

Systems Engineering

- Designed, integrated, and automated a Vertical Take-off and Landing (VTOL) testing rig to capture force data and detect previously unnoticed faults during pre-flight electrical stress testing.
- Designed a PCB in KiCad to test the flight termination system prior to deployment.
- Automated firmware and parameter uploads using Python, reducing manufacturing time by 50%.

Business Development

- Coordinated planning of company stand for an international defence convention, enhancing brand visibility.
- Authored LinkedIn posts and website articles to promote company initiatives, increasing outreach.
- Produced detailed competitor capability reports and bidders comparison matrices to support strategic decision-making.
- Supported bid process from initial storyboarding through rough order of magnitude cost estimations.

UAS Build Team

- Assembled and tested military-grade internal aircraft components, developing advanced hands-on engineering skills.
- Assisted with over 10 platform flight and engine tests, contributing to performance validation.
- Conducted quality inspections on incoming aircraft components to ensure compliance with specifications.

INDEPENDENT PROJECTS AND UNIVERSITY COMPETITIONS

Python:

- Built a Python tool to collect, process, and analyse UK stock market data, applying the Capital Asset Pricing Model to calculate expected returns, determine stock betas, and visualise portfolio risk–return relationships.
- Incorporated the Gordon Growth Model to assess whether stocks were fairly priced, enhancing skills in data analysis, financial modelling, and data visualisation.
- Used the Monte Carlo method to simulate a stock portfolio value over time

Team Bath Heart: *Won first prize for best Total Artificial Heart at the Heart Hackathon*

- Developed an alternative to a titanium casing to address back pressure issues, researched biocompatible materials, created design sketches, and presented concepts to team leaders.

Team Bath Drones: *Designing a UAV for the IMechE UAS challenge*

- Attended flight stability workshops, applying fluid dynamics to design and prototype payload release mechanisms, while gaining UAV manufacturing and 3D printing experience.

SKILLS, ACTIVITIES & INTERESTS

Languages: Fluent in English and Swedish; Taken intermediate Spanish lessons at university
Technical Skills: AutoDesk Inventor Pro, MATLAB, Python, KiCad
Certifications & Training: EDT Engineering Trust Silver Industrial Cadet award
Activities: Represent Bath University at Badminton, represented Essex at tennis, black belt at Karate
Charity: Raised £23,000 for Young Minds running the Chelmsford Half Marathon