

# Amara Osei

GRADUATE AEROSPACE ENGINEER



## EXPERIENCE

**Aerodynamics Intern**, Airbus, Filton, Bristol Jun 2025 – Nov 2025  
Completed a 6 month placement within the wing aerodynamics team at Airbus Commercial Aircraft in Filton.

- Ran CFD simulations on **5 wing trailing edge geometries** in ANSYS Fluent with meshes of up to **8 million cells**, evaluating drag characteristics at cruise conditions
- Identified a trailing edge modification that achieved a **2.1% drag reduction** at Mach 0.78, documented in a formal technical note
- Authored the aerodynamic analysis sections of **3 technical reports** submitted to the wing design lead
- Post-processed simulation results using ParaView and presented findings at **4 weekly team reviews**

**Retail Sales Assistant (Part-time)**, John Lewis, Bristol Oct 2023 – May 2025  
Part-time role during term and holiday periods in the technology department.

- Served an average of **40 customers per shift** and consistently achieved department sales targets
- Trained **3 new team members** on product knowledge and point-of-sale systems

## CERTIFICATIONS

**RAeS Graduate Member (GradRAeS)**, Royal Aeronautical Society Sep 2025 – Sep 2025

## PROJECTS

**Blended Wing Body UAV Preliminary Design (Group Design Project)** Sep 2025 – Apr 2026

Led the aerodynamic design stream within a team of 8 for a maritime surveillance UAV.

- Analysed **12 aerofoil sections** in XFOIL and selected the optimal profile for cruise at **180 knots** and 15,000 ft
- Performed 3D CFD validation in ANSYS Fluent, confirming a lift-to-drag ratio of **18.4** at the design point
- Contributed to a **120 page design report** covering aerodynamics, structures, propulsion, and systems integration

## EXTRA CURRICULAR ACTIVITY

**Bristol University Aerospace Society Vice President** Sep 2024 – May 2026  
Organised **6 industry talks** and coordinated a visit to the Airbus A350 wing assembly facility in Broughton for **30 students**.

## PROFILE

BEng Aerospace Engineering graduate from the University of Bristol with a **6 month placement at Airbus Filton**. Ran CFD simulations on **5 wing geometries** using ANSYS Fluent, contributing to a study that identified a **2.1% drag reduction**. Authored sections of **3 technical reports** and co-led aerodynamic analysis for a group UAV design project (team of 8). Graduated with **First Class Honours (72% average)** and hold RAeS graduate membership.

## EDUCATION

**BEng (Hons) Aerospace Engineering in Aerospace Engineering**

University of Bristol, Bristol  
Sep 2022 – Jun 2026

## SKILLS

- ANSYS Fluent (CFD)
- CATIA V5
- MATLAB
- XFOIL
- ParaView
- Aerodynamic Analysis
- Composite Materials
- Wind Tunnel Testing
- Technical Report Writing
- Aircraft Performance
- Python
- Microsoft Excel

## LANGUAGES

- English - Native

## CONTACT

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