Sherjeel Anjum

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Education

Biomedical Engineering MEng **Sep 2021 - Present**

Queen Mary University of London

- On track for 1st
- Key modules – Sustainable Design and Manufacture, Solid and Fluid Mechanics, Computational and Mathematical Modelling, Numerical Methods and Data Science, Process Control, Material Engineering

Exchange Undergraduate **Jun 2023 – Jul 2024**

University of Melbourne

- Key modules – Bioinstrumentation, Anatomy & Physiology in Bioengineering, Biomaterials, Biomechanics, Applied Computation in Bioengineering, Australian Wildlife

Nower Hill High School **Sep 2015 – Aug 2021**

- 3 A Levels grades A*- C in Biology, Chemistry and Mathematics
- 9 GCSE grades 9-6, including English and Mathematics

Experience

Siemens Healthineers MT **Jul 2025 – Jul 2026**

Manufacturing Engineering Intern | Helium Process Engineering

- Managed helium operations and efficiency for MRI magnet manufacturing, using **structured problem solving** and **root cause analysis** to drive **process improvements** and optimise production
- Worked directly with **BOC (Linde)** to assist with helium infrastructure projects and support improvements across site-wide efficiency initiatives
- Identified and corrected a **10× instrument scaling error** through vent flow data analysis, improving measurement accuracy, KPI correlation and **triggering higher-priority** investigations
- Created and implemented a streamlined **process change**, collaborating with **6 cross-functional departments**, minimising helium loss, resulting in **savings of > £300,000**
- **Designed** and **commissioned** a side syphon holster that eliminated dewar blockages, improving fill productivity by **85%** and **improving technician satisfaction**
- Completed Healthineers Performance System trainings in Structural Problem Solving, Agile Visual Management and Value Stream Mapping

Queen Mary Academy **Nov 2024 – Jul 2025**

Learner Research Intern

- Investigated how students from various disciplinary backgrounds perceive the usefulness of **AI** in their education, aiming to improve institutional support and teaching methodologies
- Designed surveys and conducted interviews with **45 participants** to capture qualitative and quantitative data, using **thematic analysis** to identify patterns and gauge student satisfaction
- Collaborating with academic staff and **stakeholders** to align project objectives with **institutional goals**
- Worked closely with academic staff, administrators, and departmental leads, ensuring research objectives align with institutional goals
- Generated actionable insights that influenced curriculum updates and faculty training on emerging AI technologies

Queen Mary Formula Student **Sep 2024 – Jul 2025**

Chassis Engineer

- Developed the chassis design and integration for pedal box and harness installations, using **SolidWorks** ensuring structural strength, regulatory compliance, and occupant safety
- Validated structural stability via **ANSYS** simulations (FEA, dynamic load analysis), as well as reducing the weight by **22%** while **adhering** to Formula Student **regulations**
- Coordinated with aerodynamics and suspension sub-teams to unify design requirements, resulting in improved performance and driver ergonomics

MUR Motorsport **Mar 2024 – Jul 2024**

Ergonomics Engineer

- Led the seat and dashboard design using advanced **structural analysis** (FEA) and **material selection** in **Fusion 360**, ensuring a balance of weight reduction and cost-effectiveness
- Optimised ergonomics by refining geometry based on driver feedback, adhering to strict competition regulations, and improving driver comfort
- Collaborated across **7 different teams** including, chassis, aerodynamics, and low voltage to integrate components seamlessly, ensuring reliable, high-performance results under competition conditions
- Contributed during a milestone year—**the first time** MUR's car made it back on the track since 2019

Technical Skills

- Autodesk Fusion 360, SolidWorks, PowerBI, PowerApps, PowerAutomate**,** LabView, MATLAB, Python, Granta Edu Pack, ABAQUS, Microsoft Office, ANSYS, 3D Slicer

Projects

Third- year Project | Mobile Phone Spectrometer **Jun 2025**

- Designed and innovated a mobile phone spectrometer to tackle the problem of bulky expensive traditional spectrometers and to measure tissue characterisation using flashlights and LED light sources
- Modelled the device using **Fusion 360**, optimising component placement via optical **simulations** to minimise scattering
- Utilised **MATLAB** for real-time **data acquisition** and **spectral analysis**, enabling swift, in-depth absorption readings suitable for biomedical applications

Sustainability Assessment on Tidal Turbine Blades **May 2025**

- Conducted a cradle-to-grave sustainability assessment comparing stainless steel and composite materials for tidal turbine blade applications, focusing on **environmental impact**, **structural integrity**, and **lifecycle performance**
- Utilised **Edu Pack** for **Eco-audit** and **life-cycle assessments (LCA)**, evaluating the trade-offs between durability, performance efficiency, and environmental footprint
- Identified optimal material solutions balancing sustainability and mechanical robustness, for future renewable energy implementations

Portable Posture Tracker **Oct 2024**

- Developed a wearable posture-tracking device to reduce neck and back strain by providing real-time, **user-friendly** feedback on alignment using **myRIO** and **LabVIEW**
- Employed signal processing to remove noise from accelerometer signals, ensuring accurate pitch-and-roll measurements and reliable orientation calculations
- Maintained a measurement accuracy within **±5mm** through optimised sensor placement and **data filtering**
- Contributed to **design validation** by conducting **iterative testing** across multiple different users, aligning final output with strict comfort, reliability, and discreet-wear requirements

Volunteering Experience

Royal Air Force Air Cadets **May 2015 - Mar 2022**

Cadet Flight Seargent

- Achieved a BTEC Level 2 Diploma in Teamwork and Personal Development
- **Promoted** to **Flight Seargent** showing strong leadership and initiative, setting an example for younger cadets
- **First Aid Trained**, certified by St John's Ambulance, participating in—and **winning—four consecutive** first aid competitions
- Gained practical experience working collaboratively under **demanding scenarios**, enhancing adaptability and quick decision-making

Birchwood Grange Care Home **Jan 2020 – Mar 2020**

Carer

- Communicated with and supported elderly patients
- Worked alongside nurses & ensured safety and **wellbeing** of residents