

Shannen Venethethan

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Education

Queen Mary's University London

Mechanical engineering (MEng)

Sep 2022 - May 2026

Current Average (Yr 1,2 & 3): **First Class Honours**

- Collaborated in 3-7 member teams on multiple concurrent projects strengthening teamwork, technical reporting, accountability and leadership skills.
- Developed CAD models in both Solidworks and Creo to meet project specification and dimensional tolerances. Made prototype using small scale manufacturing techniques such as FDM 3D printing
- Performed FEA using ANSYS Mechanical and Abaqus CAE to analyse and optimise mechanical structures and CFD using Star-CCM+ to analyse fluid flow and aerodynamic performance.
- Built a strong theoretical and analytical foundation in mechanics, coding (Python), thermodynamics, material science, control system and computational methods for engineering analysis.
- Led the mechanical workstream for my MEng dissertation, turning tendon-driven robotic hand brief into a practical and working design around actuation, sensing, assembly and packaging constraints.

Westminster City School

A-levels: Mathematics, Physics & Chemistry: AAA

Sep 2019 - May 2021

Licences and certifications:

SOLIDWORKS

Oct 2025

- CAD Design Associate (CSWA)

Driving Licence

Jan 2022

- Class: AM/B/BE

Employment History

Screwfix:

Store Supervisor

Aug 2024 - Present

Sales Assistant

Jul 2023 - Aug 2024

- Promoted to Supervisor while undertaking mechanical engineering degree. Assumed leadership of daily operations and staff performance in a fast pace retail environment.
- Led operations to reorganise the warehouse to enhance stock level accuracy and staff picking efficiency leading to reduced customer wait times up to 2 minutes.
- Lead daily team briefings, staff disciplinary meetings and handled heated customer escalations while maintaining accountability and professionalism under high pressure situations

Gatwick airport:

Airport security officer

Apr 2022 - Aug 2022

- Operated and monitored scanning and detection equipment ensuring technical procedure were followed to the highest standard in a high-pressure and time constrained environment.
- Ensured passenger safety by adhering to strict security procedures in a safety-critical environment strengthening my teamwork, attention to detail, fault identification and risk-based decision making.

Extracurricular & Interests

Formula student:

Sep 2022 - May 2025

- In the Drivetrain team I design the Wheel hub and hand shifter while adhering to the rule book. I also helped with routine maintenance of the car.

Powerlifting:

Sep 2020 - Present

- I have been consistently training for powerlifting for 5 years and have been coaching peers in the sport

Sim Racing:

- Enjoy sim racing as it refines driving technique by forcing you to rely on visual and tactile feedback. It also allows you to practice exact breaking points and steering control outside of the track.