

Muhammad Subhan Khan

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WORK EXPERIENCE

City Masala

Oct 2024 – Current

Operations Lead

- Managed all aspects of financial oversight, including budgeting, expense tracking, supplier payments, and payroll to maintain financial control.
- Designed and maintained the company website using WordPress, optimising local SEO and enhancing the online ordering experience
- Led daily operations, ensuring high customer satisfaction with a 95% rating through staff management and quality control.

Hyperlink

Sept 2024 – Jul 2025

Head Of Suspension

- Carried out ASTM E8 tensile testing to evaluate and select an alternative suspension material from 7075 carbon fiber to CFRP, increasing the tensile strength of the hyperloop suspension by 160%
- Conducted Finite Element Analysis (FEA) that led to a 30% improvement in system durability while reducing overall weight by 12%, optimising performance for high-speed conditions.
- Successfully delivered the suspension system technical documentation detailing material choice, stress-strain behaviour and fatigue testing 2 months ahead of schedule and within a reasonable budget, whilst coordinating a team of 5

Queen Mary FormulaOne

Oct 2024 – Jul 2025

Material Engineer

- Conducted ASTM E8 tensile testing to evaluate and select an alternative material from 6061 to tubular steel for the vehicle spaceframe, increasing the frame's yield strength by more than 55% at a negligible cost per £/m³
- Carried out vibrational fatigue tests to simulate stress from Honda CBR600F engine and evaluate how components such as the ERS and exhaust mount interact

The Hac Bow

Jun 2024–Aug 2024

Project Manager

- Applied systems engineering methodologies to integrate energy-efficient lighting and HVAC systems, reducing energy consumption by 20%.
- Designed and implemented a materials optimisation plan for venue infrastructure upgrades, utilizing knowledge of materials science to select lightweight materials

V5 Marketing

Jul 2022–Oct 2022

Brand Ambassador | July 2022 – August 2022 | Sales Coach | August 2022- October 2022

- Led and coached a high-performing team of 8+ sales representatives, boosting overall team productivity and exceeding monthly sales targets far more than initial target by more than 15%

TECHNICAL SKILLS

- | | | |
|--------------|--------------------|----------------------|
| ▪ Java | ▪ Tensile Testing | ▪ Financial |
| ▪ Python | ▪ FEA | Management & |
| ▪ SQL | ▪ SolidWorks | Budgeting |
| ▪ HTML & CSS | ▪ Microsoft Office | ▪ Material Selection |
| ▪ MATLAB | Suite | |

PROJECTS

- **Custom Mobile Phone Spectrometer:** Designed and produced a low-cost practical handheld smartphone spectrometer for biomedical analysis, integrating a Python-based image processing algorithm into a custom Android App. <https://uqvyuae.github.io/portfolio/>
- **Early-Disease-Detection-Chatbot:** Developed a Python-based AI chatbot using GPT-4 API, JSON memory storage, and Gradio interface to analyse conversational patterns for early detection of neurodegenerative diseases. <https://github.com/uqvyuae/Early-Disease-Detection-Chatbot>

EDUCATION

Queen Mary University Of London

Sept 2021- Jul 2025

(BEng) Materials Science and Engineering

AI and Photonics China Summer Research Internship

(Jun 2025 – Jul 2025)

- Applied AI methodologies such as neural networks and large language models to optimise photonic systems, showcasing proficiency in emerging cross-disciplinary technologies.
- Collaborated on real-world case studies and technical presentations, enhancing skills in data-driven problem solving, technical communication, and team-based innovation in sectors like telecom and sensing.