Leon Panjwani

London, UK
N4 1SF

hello@leonpanjwani.com
+44 (0)7746 195531
linkedin.com/in/leonpanjwani
leonpanjwani.com

Summary

Third-year MEng General Engineering (Mechanical specialism) student at the University of Sheffield (First-Class standing, 76% average). Project work spans large-scale infrastructure tendering, submersible robotics, independent product prototyping, and web/digital design, alongside two faculty design competition distinctions. Seeking a summer 2027 internship; graduating 2028.

University

MEng General Engineering – University of Sheffield
2024 – present

- On track for First-Class Honours (76% second-year avg)
- Key Modules: Thermal & Fluids (87%); Materials (81%); Electromechanical (79%)

Engineering Projects

Pocket-Sized Inflatable Helmet – Independent Project

- Identified a market gap for compact bicycle head protection, and evaluated a folded origami shell versus a pressurised bladder.
- Built a tethered TPU-coated nylon bladder that forms a domed profile from flat panels and sustains 18 psi.

Biomimetic AUV – Group Project (6)

- Designed the overall shell and oscillating tail drive in Fusion 360: servo-driven timing belt and pulley train sealed with NBR rotary shaft seal and bearing; performance judged on speed, submersibility, biomimicry, aesthetics, and linear motion.
- Produced BS 8888 model-based definition drawings and a 27-item BOM costed at £154/unit for injection moulding at 4,000 units/yr; verified mouldability via draft analysis.
- Achieved 80% overall.

Energy-from-Waste Facility & Tender – Group Project (8)

- Led the process-flow design end-to-end through the facility.
- Co-developed a deliverable waste strategy for a 75,000 t/yr EfW facility generating 20-22 MW, targeting 98% waste diverted from landfill and >65% recycling by 2031.
- Helped build the commercial case: £212M CapEx breakdown, £670M whole-life cost, and a 25-year PFI structure with profit-sharing, returning ~£87M in net benefit to the client over the 25-year term.
- Delivered the proposal as a formal 88-page tender and pitched it to the client.

Personal Portfolio Website – Independent Project

- Designed and built leonpanjwani.com, an interactive engineering portfolio, written as a single HTML file with no build step.
- Currently receives upwards of 50 unique visitors per day.

Faculty Design Competitions – Distinction x2

- **Engineering You're Hired (Jan '26)** – Led a 5-person team to 1st of 9 groups; self-sufficient Martian life-support system, voted most effective solution and presentation.
- **Global Engineering Challenge (Jan '25)** – 2nd of 6 groups; sustainable rural transport for South Africa under cost and maintainability constraints.

Technical & Professional Skills

Software & CAD: Fusion 360, MATLAB, ANSYS
Practical & Workshop: 3D Printing, Soldering, Machining
Languages: French (Professional Working Proficiency)

Work Experience

Referee | Football Association (May '19 – present)

FA qualified; 100+ competitive fixtures across youth leagues, managing players, parents, and managers.

Grill Chef | Gourmet Burger Kitchen (July – Sep '26)

Full-time. Held grill station through 13.5-hour double shifts, sustaining unbroken evening service on peak days.

Retail & Kitchen Staff | Brindisa (Nov '23 – Aug '25)

Part-time, seasonal. Worked six-day weeks through Dec '23, when store set its Christmas sales record.

Receptionist | Hotel Domaine Du Lazaret (Sep – Nov '23)

Full-time. Operated front desk for a 90% francophone guest base; often sole English-speaking staff member on site.

Events Crew & Hospitality | Various ('23 – '26)

Part-time, seasonal. Frequently worked with same-day notice.

School

The Latymer School (2016 – 2023)

A-Level: Maths (A*), Physics (A), French (A)
AS-Level: Economics (A)
GCSE: Grade 9 (five), Grade 8 (five)