Priya Kaur

Graduate Electrical Engineer

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BEng Electrical Engineering graduate from the University of Strathclyde with a summer placement at **National Grid**. Assisted with substation design reviews and cable sizing calculations for a **£5.8 million reinforcement project**. Produced **10 single-line diagrams** and ran load flow simulations in ETAP. Graduated with **Upper Second Class Honours (67% average)** and hold IET graduate membership on the CEng pathway.

EXPERIENCE

Electrical Engineering Intern (Summer Placement), National Grid, Warwick *Jun 2025 – Aug 2025*

Completed a 12 week summer placement in the substation design team supporting capital delivery projects.

- Produced **10 single-line diagrams** in AutoCAD Electrical for 132kV and 33kV substation layouts
- Performed cable sizing calculations for a **£5.8 million** network reinforcement project using BS 7671 and ERA 69-30 tables
- Ran **8 load flow simulations** in ETAP to verify voltage drop and fault level compliance
- Supported relay coordination studies for **3 protection schemes**, reviewing settings and producing documentation

Student Ambassador (Part-time), University of Strathclyde, Glasgow *Sep 2024 – May 2025*

Represented the Department of Electronic and Electrical Engineering at open days and outreach events.

- Led campus tours and lab demonstrations for **12 open day events**, engaging with over **400 prospective students**
- Mentored **5 first year students** through the department's peer support scheme

EDUCATION

BEng (Hons) Electrical Engineering in Electrical Engineering, University of Strathclyde, Glasgow *Sep 2022 – Jun 2026*

Graduated with Upper Second Class Honours (**67% average**). Programme accredited by the IET for partial CEng.

- Final year project on voltage stability analysis of grid-connected wind farms using MATLAB/Simulink, graded **76%** and commended by external examiner
- Relevant modules: Power Systems Analysis, Electrical Machines, Control Systems, High Voltage Engineering

SKILLS

ETAP (Load Flow & Fault Analysis) • AutoCAD Electrical • MATLAB/Simulink • Power Systems Analysis • Cable Sizing (BS 7671) • Substation Design • Protection & Relay Coordination • Single-line Diagrams • Circuit Design & Testing • Technical Report Writing • Python • Microsoft Excel

CERTIFICATIONS

IET Graduate Member (GMIET), Institution of Engineering and Technology *Sep 2025 – Sep 2025*

BS 7671 18th Edition Wiring Regulations (University Module), University of Strathclyde *Mar 2025 – Mar 2025*

LANGUAGES

English - Native • Punjabi - Conversational

PROJECTS

Voltage Stability in Grid-Connected Wind Farms (Final Year Project) *Sep 2025 – Apr 2026*

Investigated voltage stability limits at the point of common coupling for a simulated 50MW onshore wind farm.

- Built a **detailed network model** in MATLAB/Simulink with 14 bus bars and 3 wind turbine generator types
- Identified that reactive power compensation reduced voltage deviation by **34%** under worst-case generation scenarios
- Presented findings at the departmental poster day to an audience of **60 staff and students**

EXTRA CURRICULAR ACTIVITY

Strathclyde Engineering Society Committee Member *Sep 2024 – May 2026*

Organised **4 industry networking events** and a site visit to ScottishPower's Whitelee Wind Farm for **28 students**.