ROCHAK LAMSAL

Graduate Civil / Structural Engineering Candidate | BEng Civil Engineering (Expected 2027)

Hayes, London 07386 811514 rochaklamsal2201@gmail.com
Portfolio: rochaklamsalportfolio.site LinkedIn: linkedin.com/in/rochak-lamsal-b92a7832a

PROFESSIONAL PROFILE

Ambitious BEng Civil Engineering student at the University of Roehampton (Expected 2:1 Honours, 2027) and **Student Member of the Institution of Civil Engineers (ICE) and the Institution of Structural Engineers (IStructE)**. Strong academic foundation in structural analysis, steel and concrete design, surveying, and sustainable engineering, combined with hands-on project experience applying theory to real buildings and infrastructure. Proficient in AutoCAD, SPACE GASS, Abaqus and technical reporting. Seeking graduate opportunities in Civil Engineering, Structural Engineering, Site Engineering, Transportation Engineering or Infrastructure Project Delivery. Open to relocation, subject to applicable work authorisation.

EDUCATION

University of Roehampton, London
Sep 2024 – Expected Jun 2027

BEng Civil Engineering · Expected 2:1 Honours

- **Core academic studies:** Structural Engineering & Structural Analysis (load distribution, portal frames, design of steel and reinforced concrete elements); Surveying principles and field measurement; Fluid Mechanics; Project Management; Construction Technology.
- **Academic project highlights:** Led a multidisciplinary retrofit design applying engineering principles to a public building; conducted field surveying exercises producing accurate site data and drawings; developed low-carbon design proposals aligned with UK and London planning standards.
- **Professional affiliations:** Student Member — Institution of Civil Engineers (ICE); Student Member — Institution of Structural Engineers (IStructE).

Shree Jyoti Secondary School
Sep 2019 – Jun 2023

- Completed secondary education with a strong focus on **Mathematics, Physics and Engineering Science**, establishing the core technical foundation for higher education in civil engineering.

TECHNICAL SKILLS

Engineering Software	AutoCAD, SPACE GASS, Abaqus, Microsoft Office Suite (Excel, Word, PowerPoint)
Structural Design & Analysis	Steel-framed extensions, load path assessment, portal frame analysis, reinforced concrete and masonry fundamentals, drawing interpretation
Sustainable & Building Design	Low-carbon retrofit, energy efficiency, building fabric upgrades, MVHR, renewable heating, accessibility and fire compliance
Surveying	Total station, auto level, closed traverse, levelling, site control and measurements, data processing and site plan production
Academic & Professional	Technical report writing, design calculations, research and data analysis, teamwork, problem-solving, time management, site safety awareness

KEY PROJECTS

Roehampton Library Retrofit — Sustainable Engineering & Building Modernisation
Multidisciplinary Academic Project | Civil Engineering Lead

- Led civil engineering work within a cross-discipline team to develop a full technical retrofit proposal for the University of Roehampton Library, balancing building upgrades with minimum disruption to library users and local residents.
- **Structural:** Applied structural engineering theory to design a lightweight steel-framed extension, increasing net floor area from 581 m² to 669 m² (+15%) while assessing loads and compatibility with the existing structure.

- **Sustainability & Energy:** Integrated building physics and environmental design principles to specify external wall insulation, high-performance glazing, air-source heat pumps, underfloor heating and MVHR — reducing heat loss, improving indoor air quality and enhancing natural daylight.
- **Project Delivery:** Used project management and cost-planning methods to outline construction phasing, procurement options, site logistics and health & safety risk assessments.
- **Compliance & Access:** Redesigned the external access ramp, circulation routes and fire safety provisions to meet current building standards.
- Produced a full technical report documenting design assumptions, calculations and proposals, developing academic writing and presentation skills.

Sustainable Residential Redevelopment — Urban Eco Proposal

Group Design Project

- Applied civil engineering design criteria to create a low-carbon housing proposal for South West London, integrating passive design, energy efficiency and sustainable materials.
- Researched and aligned proposals with London housing design standards, accessibility requirements, EV charging provision and off-site construction options.
- Evaluated material selection and construction methods based on sustainability and performance principles, balancing environmental targets with practical buildability and amenity space planning.
- Collaborated within a team to deliver a coordinated proposal — mirroring industry multidisciplinary working practices.

Closed Traverse Surveying & Levelling

Field & Laboratory Work

- Put surveying theory into practice, operating total station and auto level instruments to collect precise field data and establish accurate site control networks.
- Processed measurements using mathematical methods and spreadsheet tools — checking for errors, calculating coordinates, elevations and closure adjustments.
- Produced scaled site plans from processed data, linking field work to drawing and design preparation; gained practical understanding of accuracy control and quality assurance in civil engineering measurement.

WORK EXPERIENCE

Part-time Team Member — Fine Dining Restaurant

Ongoing

- Operate in a fast-paced, high-standard environment, collaborating within a 10+ person team to deliver consistent service.
- Maintain reliability and strong time management by balancing 15+ weekly hours alongside full-time university studies.
- Demonstrate clear communication, adaptability and attention to detail in customer-facing and team roles.

ADDITIONAL INFORMATION

- **Professional affiliations:** Student Member — Institution of Civil Engineers (ICE); Student Member — Institution of Structural Engineers (IStructE).
- **Availability:** Short placements / internships immediately available; full-time graduate roles from July 2027.
- **Immigration status:** Current UK Student Visa — happy to discuss sponsorship eligibility for permanent roles.
- **Training:** AutoCAD practical application; basic site safety awareness; field surveying practice.
- **Interests:** Structural analysis and design, steel and concrete structures, highway and transportation engineering, infrastructure planning, bridge design, low-carbon transport networks, sustainable civil engineering.