RACHANA KATUWAL

Civil Engineering Student | Trainee Sub-Engineer

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PROFILE

Civil Engineering student with 12 months of hands-on training in irrigation works, municipal infrastructure and building construction. Experienced in field leveling, earthwork calculation, estimation, rate analysis and site supervision, and skilled in AutoCAD and ETABS.

PRACTICAL TRAINING (12 MONTHS, AS TRAINEE SUB-ENGINEER)

Hillshade Engineering and Consultant Pvt. Ltd. April – October 2025 (6 months)

Private consultancy, building construction with new technology

- Worked on the complete construction process, including exterior and interior design
- Learned and practiced building design, estimation and rate analysis
- Gained experience in construction management and site execution of buildings

Triyuga Municipality, Ward No. 10 Office April – July 2024 (3 months)

- Supervised picnic spot construction and RCC road construction at Boksey
- Prepared drainage estimates and rate analysis according to the district rate at Boksey
- Supervised drainage construction at Boksey

Water Resources and Irrigation Development Division April – July 2023 (3 months)

- At Chhapan River, carried out profile leveling, fly leveling and cut and fill calculation on a 2 km stretch using an auto level
- Supervised the irrigation canal diversion headworks at Belaka
- Supervised canal works at Hoksey and drainage works at Rampur

SURVEY CAMP

WOREC Nepal Institute, Rajabas 2024 (5 days, residential)

- Carried out profile (longitudinal) and cross-section leveling of a road
- Calculated earthwork (excavation and filling) from the leveling data
- Used fly leveling to select the best possible route for a roadway in hilly terrain

EDUCATION

B.E. Civil Engineering (ongoing) 2025 – Present

Kantipur City College, Putalisadak, Kathmandu

+2 Technical (NEB), Civil Engineering Completed 2025

Triyuga Secondary School, Gaighat, Udayapur | GPA: 3.68 (Class 10), 3.90 (Class 11), 3.60 (Class 12)

Diploma in Office Management Completed 30 September 2022

Computer Application Service (CAS) Institute, Gaighat, Udayapur

PROJECTS

GasQ: LPG Gas Digital Queue Management System 2026

- Provided the project idea and requirements for a web system for LPG gas dealers, with customer registration, digital tokens, real-time queue tracking and a dealer dashboard
- Worked on the project together with the developer (software built with FastAPI, JavaScript and SQLite)

SKILLS

Software: AutoCAD 2018 (drafting), ETABS (building modeling and analysis), SketchUp (3D modeling), MS Excel (estimation, rate analysis), MS Word

Technical: auto level, profile, cross-section and fly leveling; earthwork (cut and fill) calculation; estimation and rate analysis (district rate); site supervision; building design and construction management

Other: teaching, leadership, management, critical thinking, creativity, communication

ACHIEVEMENTS

- School topper in Grades 9–12 (+2 Technical)
- Best student/learner at the 2024 survey camp
- Participant, Engineering Marvel (college engineering competition)

EDUCATIONAL SITE VISITS

- Chandra Nahar (irrigation canal) and Dharan–Dhankuta road bridges: truss, arch, RCC and wooden (2024–25)
- Nagdhunga Tunnel, United Cement Factory (Dhading) and Patan Industrial Estate (2026)