

AASHUTOSH ADHIKARI

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PROFESSIONAL SUMMARY

Final-year Civil Engineering student at Tribhuvan University with specialized experience in **urban corridor development** and **riverfront infrastructure**. Proven expertise in hydraulic-related project estimation for the **Bagmati Corridor** and large-scale transportation planning for the **Nilopul-Jadibuti Corridor**. Skilled in using **Drone Photogrammetry** for high-precision topographic mapping and 3D modeling of infrastructure projects.

EDUCATION

Bachelor's degree in civil engineering <i>Tribhuvan University, Nepal</i>	Nov 2026
High School GPA: 3.50/4.00 <i>NEB (National Examinations Board), Nepal</i>	Dec 2021

TECHNICAL SKILLS

- **Engineering Design & Analysis Tools:** AutoCAD, Revit, ETABS, Fusion 360
- **Estimation & Construction Engineering:** Quantity Take-off, BOQ Preparation, Rate Analysis, Cost Estimation, Site Measurement, Cost Verification
- **Geospatial & Photogrammetry Tools:** Agisoft Metashape, Google Earth, Drone Photogrammetry, 3D Modeling & Visualization
- **Programming & Web Technologies:** Python (basic), HTML, CSS, JavaScript, Figma (UI Design), ML
- **Surveying & Field Instruments:** Total Station, Auto Level, Theodolite, Compass, Tape
- **Productivity & Documentation:** Microsoft Office (Word, Excel, PowerPoint), Technical Reporting & Documentation

PROFESSIONAL EXPERIENCE

Civil Engineering Intern (Junior Trainee, Extended) <i>City Planning Commission (Government Organization), Kathmandu Plaza, Kamaladi, Kathmandu, Nepal</i>	Jun 2025 – April 2026
• Nilopul-Jadibuti Corridor: Conducted end-to-end project estimation including quantity take-off, BOQ preparation, and final cost verification for large-scale urban infrastructure works. • Bagmati Corridor: Revised, corrected, and finalized detailed project estimates to ensure accuracy, compliance, and cost reliability. • Kathmandu District Administration Office (CDO), Babarmahal: Performed – Phase II post-fire structural and fire safety assessment through site inspection and non-destructive testing (NDT), supporting rehabilitation planning. • Kanti Ishwori Rajyalaxmi Primary School: Prepared complete project cost estimates involving quantity take-off, BOQ preparation, rate analysis, and cost validation. • Pancha Kumari Park, Banasthali (Kathmandu-16): Executed detailed estimation works including site survey, field measurement, quantity take-off, and BOQ preparation. • Chamati Park: Verified and revised cost estimates and finalized technical and financial project documentation. • Dhungedhara Park, Kathmandu: Performed detailed field surveys, site measurements, and technical site analysis for project planning • Rastriya Sabha Griha: Carried out site measurement surveys to support 3D visualization and architectural lighting design coordination. • Mahankal Temple, New Road (Kathmandu): Studied traditional construction techniques with practical cost assessment for conservation-oriented works. • Swastya Prabadhan Kendra, KMC-14: Conducted site visits and measurement surveys and prepared detailed project cost estimates.	

Research and Innovative Unit, Kathmandu, Nepal

- Mentored second-year students in both theoretical and practical photogrammetry sessions, including drone surveys and 3D modeling techniques.
- Supported research and academic activities related to drone photogrammetry, including data handling, documentation, and internal research discussions.
- Developed a 3D model of the Advanced College of Engineering and Management using drone photogrammetry, enhancing visualization and survey accuracy.
- Authored a technical blog on photogrammetry, published on the RIU website ([View Website](#)).
- Assisted in research coordination and project management, demonstrating professionalism and a collaborative work attitude.

INTERNSHIP EXPERIENCE**Civil Engineering Intern****May 2024 – Nov 2024***Nipun Group of Company Pvt. Ltd., Anamnagar, Kathmandu, Nepal*

- Updated and refined architectural drawings for Sanat & Pramod Residence to ensure alignment with design intent and specifications.
- Conducted multi-project drawing reviews, identifying discrepancies and suggesting corrections for compliance with technical standards.
- Assisted senior engineers in project coordination and structural design tasks, supporting efficient execution.
- Performed site surveys at Ghattekulo and Budhanilkantha, collecting field data to inform planning and design decisions.
- Supported project documentation and reporting, contributing to overall project management and quality assurance.

LEADERSHIP & PROFESSIONAL ACTIVITIES**Mentor – Research and Innovation Unit, ACEM**

- Mentored second-year civil engineering students in drone photogrammetry and 3D modeling, covering both theoretical and practical sessions.

Author – RIU Technical Blog

- Published a technical blog on drone photogrammetry on the Research and Innovation Unit website ([View Website](#)).

PUBLICATIONS & PRESENTATIONS

- Blog: “Mastering Drone Photogrammetry: RTK Simplified Precision - A Case Study on the Feasibility of Drone Photogrammetry with RTK” ([View Website](#))

HONOR AND AWARDS

- Part of National Budhanilkantha Math League 2019, organized by Budhanilkantha School, Budhanilkantha, Kathmandu, Nepal.
- Treasure Hunt winner, demonstrating strong teamwork and strategic thinking.
- Honored for exceptional strategic math problem-solving, receiving a trophy for remarkable achievement.

LICENSES & CERTIFICATIONS

- AutoCAD: Beginner to Professional Training, Alison – Issued May 2025, Credential ID: 3393-46010821
- Introduction to Python Tools, Alison – Issued May 2025, Credential ID: 3063-46010821
- User Interface Design with Figma, Alison – Issued Feb 2025, Credential ID: 4304-46010821
- Effective Presentations, HP LIFE – Issued May 2025, Credential ID: 7abb5443-6a33-4391-85a5-22413b4386e3

- AI for Beginners, HP LIFE – Issued May 2025, Credential ID: 228d47ce-5f52-4a75-8104-7fb9c1cf8c6c
- E-Learning Theory and Practice for Publishers, Alison – Issued April 2025, Credential ID: 1541-46010821

VOLUNTEER EXPERIENCE

- Volunteer, 5th Science Engineering and Technology (SET) Conference – assisted in organizing various discussions for engineering research, launching journals and distribution of certificates.
- Volunteer, Aarambha 2024 – Helped in managing the program as well as team competitions for students.

PROFESSIONAL MEMBERSHIPS & ACTIVITIES

- Member of Civil Engineering Student Society (CESS), ACEM **2026-Present**

REFERENCES

Er. Abhishek Khatiwada
Chairman, Nipun Group of Company Pvt. Ltd.
Anamnagar, Kathmandu, N
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