

SRUSHTI VINOD BALKI

New York, 10027 | (347)-718-0429 | svb2134@columbia.edu | www.linkedin.com/in/srushtivinod

EDUCATION

Columbia University, New York City

Aug 2023-Dec 2024

Master of Science in Civil Engineering →

3.4 GPA

~~Coursework: Managing Engineering and Construction Processes, Prevention and Resolution of Construction Disputes, Capital Facility Planning and Financing, Managing Civil Infrastructure Systems, Real Estate Finance and Construction Management, EHS in Construction.~~

Yeshwantrao Chavan College of Engineering (YCCE)

Aug 2019-May 2023

Bachelor of Engineering in Civil Engineering →

3.3 GPA

~~Coursework: Fundamental of Management, Fundamental of Economics, Estimating and Costing, Construction Management and Machinery, Engineering Graphics, Project Evaluation and Management, Concrete Technology, Analysis and Design Studio, Concrete Technology.~~

TECHNICAL SKILLS

Software: AutoCAD Civil 2D & 3D, ~~Autodesk~~ Revit, STAAD Pro, SAP2000, PrimaveraP6, PowerBI, Bluebeam, Excel.

Operated Tools and Machinery: Topcon Theodolite DT-307L with Laser Pointer, Leica iCON 5-Second iCB70 Manual Construction Total station, GeoMax Zoom90 Series, Drone surveying and mapping DJI Phantom 4 RTK, DJI Matrice 300 with a Zenmuse P1, H520 RTK.

ACADEMIC PROJECT

Confederation Bridge

Jan 2024-Present

Investigation of the major infrastructure project.

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- Conducted a comprehensive investigation into the project, focusing on financing mechanisms, and risk management strategies.
- Performed financial analysis to evaluate cost-benefit considerations, highlighting successful strategies and areas for improvement.
- Identified and addressed key project challenges, influencing stakeholder decisions on design and implementation processes.

Construction Engineering and Management for Werwaiss Properties

Sep 2023-Dec 2023

Studied project, recognized challenges, suggested modifications and solutions.

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- Contributed to a 240-unit mixed-use development project, overseeing the allocation of space and time to streamline schedule.
- Implemented risk adaptation strategies for winter weather, optimizing concrete pouring processes and enhancing material sourcing.
- Played a key role in project management, achieving significant schedule reductions, waste management and cost savings.

NYU Langone Health Medical Science Building (MSB) Restack Project

Sep 2023-Dec 2023

SHEMS for a project specific scope of work using the ISO 14001 and 45001 standards.

- Led a detailed assessment of building conditions for the MSB Restack Project, utilizing ISO standards to ensure occupational EHS.
- Developed and executed comprehensive safety measures, including hazard mitigation to maintain project integrity and compliance.
- Enhanced project efficiency through meticulous planning and logistics, achieving timely renovation and regulatory compliance.

Columbia Tower – Blue Sky Properties (BSP)

Sep 2023-Dec 2023

Analyze role of World Class Contractor (WCC) as construction manager at risk.

- Analyzed and resolved construction process issues, identifying solutions for steel truss installation delays and permit challenges.
- Instituted corrective actions to address initial project setbacks, fostering cooperation between groups to mitigate additional costs.
- Formulated strategic approaches to overcome project challenges, prioritizing safety, resource allocation, for successful execution.

Lightweight Concrete Using Expanded Polystyrene (EPS) Beads

Aug 2022-May 2023

Maintain the strength of concrete while reducing the weight.

- Spearheaded a project aimed at augmenting strength of concrete, achieving strength increase with minimal impact on weight.
- Innovatively adjusted cement dosage to enhance strength, meticulously balancing the material composition for optimal performance.
- Expertly manipulated EPS Beads ratios to control voids, maintaining the lightweight characteristic while improving structural integrity.

RESEARCH & PROFESSIONAL EXPERIENCE

Global Leaders in Construction Management

Sep 2023-Dec 2023

Research Fellow.

- Spearheaded strategic development research initiative focusing on U.S. firms leading to actionable insights for market entry strategies.
- Established and nurtured partnerships with international engineering firms, gaining critical insights into global expansion tactics.
- Analyzed key success factors in the construction industry's fast-evolving global market, aiming to internationalize their operations.

Penn Station Reconstruction, AECOM

Sep 2023-Dec 2023

Industrial Field Study Fellow.

- Engaged directly in the project, applying a blend of traditional and agile project management methodologies to streamline operations.
- Gained profound insights into AECOM's project management strategies, focusing on risk management, and budget execution.
- Contributed to implementation of an optimized project timeline and budget planning process, facilitating smoother project execution.

ElevateBuild Constructions (EBC)

Jan 2023-May 2023

Monolithic Building Project Intern.

- Collaborated with site engineers to oversee the construction, identifying efficiencies and improvements in construction phases.
- Conducted an in-depth analysis of construction technology's impact on project timelines, revealing potential for time and cost savings.
- Assisted in the organization and groundwork preparation for construction sites, ensuring projects were set up for success from outset.