

SRUSHTI VINOD BALKI

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EDUCATION

Columbia University, New York City Master of Science in Civil Engineering

Aug 2023-Dec 2024
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.

- 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.

- 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.