

# SRUSHTI VINOD BALKI

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## 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.

- 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.