

Gopika Danayakapura Somashekar

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EDUCATION

Carnegie Mellon University Pittsburgh, PA
Masters of Science in Architecture Engineering Construction Management; CGPA - 4/4 **Aug 2024 – Dec 2025**

Coursework: Project Planning & Reporting | Project Management for Engineering and Construction | Cost Estimation | BIM for Engineering Construction and Facility Management | Real Estate Development | GIS in Infrastructure Planning

BMS College of Engineering Bangalore, India
Bachelor of Architecture; CGPA – 8.4/10 **Jun 2016 – Mar 2021**

TECHNICAL SKILLS

AutoCAD, Revit, Building Information Modelling (BIM), Microsoft Project, Primavera, Project Libre, Blue Beam, ArcGIS Pro, MS Office (Word, Excel, PowerPoint), Sketchup, 3DS Max, Lumion.

PROFESSIONAL EXPERIENCE

Teaching Assistant and Research Assistant, Carnegie Mellon University **Sept 2024 – Present**

- Teaching Assistant, Constructing Values, Spring 2025: Support instruction, workshops, grading, and industry coordination for a course on equitable and sustainable real estate development.
- Research Assistant, Sustainable Design, Fall & Spring 2024/25: Conduct research on sustainable materials, analyzing life cycle impacts and energy efficiency to support environmental policy and retrofit decision-making.

Project Architect, Studio Masons, Design-Build, Bangalore **Jan 2023 – Jun 2024**

- Led design and execution of four commercial fit-out projects (50,000–150,000 sq. ft.).
- Managed budgets and cost estimates for projects valued at USD 1.2M–6M.
- Coordinated with site teams, MEP managers, vendors, and developers to ensure seamless execution.
- Supervised construction documentation and compliance with project specifications.
- Directed site inspections to maintain quality control and resolve execution challenges.

Junior Architect, Studio Masons, Design-Build, Bangalore **Nov 2021 – Dec 2022**

- Directed construction and landscape development for a 65,000 sq. ft. recreational facility.
- Delivered architectural and interior designs for a high-end gym, ensuring timely execution.
- Developed construction drawings and coordinated with contractors for aviation retail and commercial projects.

Architecture Intern, Parallax Architects, Bangalore **Jan 2021 – Jul 2021**

- Assisted in design development, 3D modelling, and visualization for high-end residential and hospitality projects.
- Engaged in client meetings and project coordination to streamline design execution.

Architecture Intern, Studio 8 Designs, Bangalore **Jul 2020 – Dec 2020**

- Produced detailed construction drawings using Revit and BIM for industrial and hospitality projects.
- Conducted site surveys and collaborated with contractors to ensure design accuracy.

ACADEMIC PROJECTS

- **Data-Driven Risk Management:** Analyzed industry challenges in cost overruns and schedule delays, proposing a predictive risk management framework integrating AI-driven analytics with BIM and ERP systems.
- **Carbon Tracking in Construction:** Researched AI-driven methods for real-time emissions monitoring, material optimization, and automated compliance, reducing lifecycle carbon emissions by up to 50%.
- **Office-to-Residential Conversions:** Evaluated financial models, regulatory challenges, and construction strategies for adaptive reuse projects to optimize costs and urban revitalization.
- **CAWP Student Estimating Competition (2024-2025):** Competing in a national challenge focused on cost analysis, risk assessment, and project budgeting.

HONORS & AWARDS

- **Academic Commendation & Merit Scholarship,** Carnegie Mellon University: For academic excellence and achieving a 4.0 GPA.
- **Best Employee Award** at Studio Masons: Recognized for exceptional performance. **Apr 2023**