

Udiksha Nagaraj Kapini

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SUMMARY

BIM Technologist with a focus on sustainable AEC solutions, leading product initiatives in geometry and Building Energy Modeling for 25,000+ global users. Led BIM strategy for data-driven design optimization, contributing to sustainable building technology research. Conducted over 600+ technical product presentations, enhancing customer engagement and supporting sales in sustainable design integration.

EXPERIENCE

BIM Specialist II | Cove Tool, Inc | Atlanta | June 2021 - November 2023

- Directed the development of 10+ geometry plugins/tools and BIM standardization workflows, enhancing user adoption, and software functionality.
- Led a global team of 5 BIM coordinators and modelers, focusing on strategic objectives, training, and performance optimization.
- Managed several inter-departmental meetings with software engineers and consultants for strategic prioritization, driving efficient project management.
- Collaborated cross-functionally with sales, customer success, and marketing to ensure a seamless technical client experience. Produced 100+ types of educational content on green building practices and various learning resources to improve customer support and engagement in sustainability.
- Advanced cloud-based 3D modeling applications with a focus on sustainable design metrics by optimizing UI/UX and core functionalities, defined technical user stories and comprehensive documentation, ensuring user-centric software development.
- Supervised vital software features for sustainable architecture goals, formulating technical product roadmaps, MVP benchmarks, & documentation.
- Managed resource allocation and project timelines, prioritizing tasks for strategic importance to drive efficient, impactful software development.
- Handled major BIM & LEED projects, improving model uploads. Established energy modeling-focused BIM standards for enhanced industry efficiency.
- Articulated product direction at national conferences and forums, enhancing academic and industry engagement.

Graduate Assistant | Georgia Tech - Capital Planning and Space Management | Atlanta | September 2019 - May 2021

- Created 3D visualization for architectural & planning projects including the Georgia Tech Student Center, Reck Garage and Campanile Plaza.
- Conceptualized University interior floor plans & renders for space optimization studies and data analytics.
- Updated and recorded architectural changes to campus 3D models & plans, adapting to the evolving requirements of several departments.
- Developed wayfinding processes in campus spaces for pedestrians and E-bikes.

Architectural Intern | Creative Choice Group | West Palm Beach | August 2020 - November 2020

- Developed design visualizations, 3D coordination, and as built condition documentation for a high-rise building using BIM workflows.
- Synchronized advanced 3D modeling outputs with construction project timelines, optimizing workflow efficiency and milestone achievement.
- Facilitated on-site integration of as-built conditions with corresponding drawings and visualizations tools.

EDUCATION

Master of Science in Architecture - Building Information Systems | Georgia Institute of Technology | 4.0 | Atlanta | 2021

- Elected representative for Student Advisory Council (2019-2021)

Bachelor of Architecture | RV College of Architecture | 3.7 | Bangalore, India | 2019

- Awarded merit based full scholarship for 5 years (State wide CET NATA Rank 3)

AWARDS AND PUBLISHED WORK

- Honorable Mention for Project STASIO Annual Competition 2023 by the International Building Performance Simulation Association (IBPSA USA).
- Published Paper titled "Impact assessment of Energy Conservation Measures on Building Energy Consumption, Carbon Emissions, and Adaptation Cost using Future Weather Data" 2022 Annual Modeling and Simulation Conference 2022 (ANNSIM), San Diego, CA, 2022, doi: 10.2391. In collaboration with Z.Zolfaghari, T.Raja, D.Salinas, P.Kusumadaja and P.Pease.

SKILLS

Technical Skills:

- SaaS Environment/Product Management: Product Research & Planning, Figma, UX Design, Prototyping, Quality Assurance Testing, SaaS, Agile Methodologies
- BIM-BEM/3D Modeling: Revit, BIM360, Rhino, SketchUp, Archicad, Vectorworks, Navisworks cove.tool, LadyBug Tools, DIVA for Rhino, OpenStudio, TallyCAT
- Scripting/Coding: Grasshopper, Dynamo, JavaScript, HTML/CSS - Presentation: Adobe Photoshop, Indesign, Illustrator, Premiere Pro

Soft Skills: Team Leadership, Customer-Centric Approach, Cross-functional Collaboration, Strategic Thinking and Problem Solving, Effective Communication and Presentation, Project Coordination and Stakeholder Engagement.