

ROLL NUMBER: P25700393**Mr. Rakesh D**

Male

DOB

29-Sep-2000

TECHNICAL SKILLS

- Stakeholder Management
- Strategic Planning
- Cost
- Time Management
- Conflict Resolution
- Team Building
- Primavera & MS Project
- AutoCAD & Rapid Prototyping

PERMANENT ADDRESS

No. 9905, Dishitha, 60ft Road,
Vijayanagar 4th Stage 2nd Phase,
Near Indian Bank, Mysore_x000D_
City: Mysore
State: Karnataka
Pincode: 570017

LANGUAGE

- English
- Hindi
- Telugu
- Tamil
- Kannada

SUMMARY OF QUALIFICATION

Course / Programme	Board / University Name	CGPA/ (%)	Passing Year
MBA-ACM	NICMAR University, Pune	8.41	2027
B.Tech <i>Construction Technology</i>	PES UNIVERSITY	69.2	2024-Dec
Diploma	SANDUR POLYTECHNIC, KARNATAKA	83.74	2020-Oct
High School	CENTRAL BOARD OF SECONDARY EDUCATION	72.2	2015-Mar

TOTAL WORK EXPERIENCE: 26 month(s)**DL Engineering Works**

24-Apr-2023 - 24-Jun-2025

2 Years, 2 Months, 0 Days**PROFILE:** Construction Project Coordinator (Turnkey Projects)

- **Design & Build Execution:** Directed the execution of a 9,600 sq. ft. Design and Build turnkey project, managing the transition from Design conceptualization to final Interior Fit-out.
- **Project Controls & Budgeting:** Applied strict project controls, budgeting, and time management to optimize resource allocation, delivering the project 2 months ahead of schedule.
- **Stakeholder Management:** Independently engaged with stakeholders and architects, proactively presenting initial solutions for functional end-user needs based on Lean Startup methodologies.
- **Quality Workmanship:** Supervised Interior Finishes (Flooring, Lighting, Joinery) to ensure high-quality deliverables that aligned with the client's vision and brand standards.

INTERNSHIP / PROFESSIONAL TRAINING (Total Duration: 21 Weeks)**TAHAL Group**

27-Nov-2019 - 04-Dec-2019

1 Weeks**PROFILE:** Intern

- **Environmental Engineering:** Contributed to the Water & Environment sector by assessing environmental components (air, water, soil) for the Nandanwadigi Lift Irrigation project.
- **Risk & Compliance:** Assisted in formulating an Environmental Management Plan (EMP) to mitigate risks and ensure governance and project compliance with ecological standards.

Nexus India INC

06-Jan-2023 - 06-Apr-2023

12 Weeks**PROFILE:** BIM Trainee

- **Risk Assessments:** Performed Technical Due Diligence and risk assessments on architectural drawings and steel detailing across four key projects, identifying discrepancies to mitigate design risks.
- **Process Re-engineering:** Leveraged Building Information Modeling (BIM) technology for business process re-engineering and Output Quality Control (OQC), streamlining reviews and enhancing internal governance

Ahluwalia Contracts (India) Limited

04-May-2026 - 03-Jul-2026

8 Weeks**PROFILE:** Planning & Commercial

- **Master Scheduling:** Utilized scheduling software (Primavera) to develop a 952-day master schedule for Birla Trimaya, emphasizing concurrent execution and risk management to meet early 2028 deadlines.
- **Data Analysis & Progress Tracking:** Conducted data analysis and progress tracking using milestone tracking, delay analysis, and standard reporting (DPR, WPR, MPR, MLAP) to assist in

decision-making.

- **Digital Prototyping & Cost Analysis:** Designed digital prototypes using AutoCAD 3D and conducted cost analysis, yielding recommendations for improvements that saved approximately Rs. 7,17,322.00 per floor/set

PUBLICATIONS DETAIL

Generation of Building Plans using ML and AI | Springer Nature

Technologies for Sustainable Buildings and Infrastructure

Selected Proceedings of SIIOC 2023 | Conference proceedings © 2024

Traditional residential design is often time-consuming and prone to errors. To streamline this process for architects and urban planners, this research explores deep learning models to automate building plan generation.

Key Findings:

- **Initial Attempts:** Early experiments using Variational Autoencoders (VAEs) and DALL·E produced pixelated, hard-to-interpret images due to strict constraints.
- **The GAN Solution:** Switching to Generative Adversarial Networks (GANs) significantly improved image clarity and resolution. The generator-discriminator setup requires fewer constraints and produces highly realistic outputs.
- **Current Challenges:** Despite yielding superior results, GANs still face technical hurdles like training instability, mode collapse, and vanishing gradients.

Conclusion: While further refinement is necessary to resolve training issues, GANs demonstrate strong potential to successfully replace and enhance traditional architectural design methods.

ACHIEVEMENT DETAIL

STARTUP & TECHNICAL INNOVATION

Co- Founder | AI-Driven Architectural Planning Tool

- **Product Development:** Developed a proof-of-concept AI tool using GANs and VAEs to automate building plan generation, published in Springer for its innovation in spatial layout creation.
- **Rapid Prototyping:** Iterated on model selection to enhance image fidelity, demonstrating the "fail fast, pivot fast" startup mentality to solve complex "mode collapse" technical hurdles.
- **Scalability:** Designed a data-driven model that offers a scalable solution for urban planners, transforming a theoretical concept into a functional prototyping tool.

LEADERSHIP & CLUB EXPERIENCE

Club Head | Abhyudaya Club, PES University

- **Strategic Growth:** Spearheaded "The Next Phase" initiative, a comprehensive roadmap for member integration that increased club engagement and long-term advancement.
- **Event Ecosystem Management:** Curated and executed high-impact events, including a Master Class with industry veteran Shri Prakash Belawadi, managing high-profile guest relations and logistics.
- **Innovation Incentivization:** Launched a "Make-a-thon" event with a **budget of 1,22,000/-** focused on civil and architectural innovations, with a prize pool of 18,000 and attracting cross-disciplinary participants.
- **Community Engagement:** Organized diverse workshops (e.g., Mandala Art) to foster a creative culture, balancing technical rigour with artistic expression to maintain a broad member base.

PES University Ambassador Book

- **Featured as an Entrepreneur:** One of the few students selected for the university's flagship publication for outstanding contributions to the startup ecosystem and AI-driven architectural innovation.