

ROLL NUMBER: P25700393**Rakesh D**

Male

DOB

29-Sep-2000

TECHNICAL SKILLS

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

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	8.42	2027
Graduation	PES UNIVERSITY, BENGALURU	69.2	2024-Dec
Diploma	SANDUR POLYTECHNIC, KARNATAKA	83.74	2020-Oct
High School	CENTRAL BOARD OF SECONDARY EDUCATION	72.2	2015-Mar

WORK EXPERIENCE (2 Years 2 Months)**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.
- **User-Centric Design:** Implemented an empathy-driven approach to ensure the final product met functional and experiential end-user needs, a core principle of Lean Startup methodology.
- **Time & Cost Efficiency:** Achieved Time and Cost Efficiency by optimizing resource allocation and coordinating with architects to deliver the project 2 months ahead of schedule.
- **Quality Workmanship:** Supervised Interior Finishes (Flooring, Lighting, Joinery) to ensure high-quality workmanship that aligned with the client's vision and Brand standards.

INTERNSHIP / PROFESSIONAL TRAINING (Total Duration: 22 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 project compliance with ecological standards.

Nexus India INC

06-Jan-2023 - 06-Apr-2023

12 Weeks**PROFILE:** BIM Trainee

- Performed Technical Due Diligence on architectural drawings and steel detailing across four key projects, identifying discrepancies to mitigate design risks.
- Facilitated the use of BIM technology to conduct Output Quality Control (OQC), streamlining drawing review processes and enhancing internal control improvements.

Ahluwalia Contracts (India) Limited

04-May-2026 - 03-Jul-2026

8 Weeks**PROFILE:** Planning & Commercial

- **Master Scheduling:** A 952-day master schedule for Birla Trimaya uses concurrent execution to meet early 2028 deadlines. Interior finishing deliberately overlaps with structural concrete pouring.
- **Progress Tracking:** The project is monitored using milestone tracking, delay analysis, and standard progress reports (DPR, WPR, MPR, and MLAP).
- **Digital Prototyping:** Designed formwork for staircases using AutoCAD 3D, and later physically fabricated the formwork for successful testing.

- **Cost Analysis:** Conducted rate comparisons showing the MS Tube and Sheet system costs Rs. 94,678.00 per set compared to Rs. 8,12,000.00 for Aluminium Formwork, saving 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.