

SANU RAZIN N

| A Digital transformation Enthusiast with high emphasis on research-oriented career growth in the field of
Construction Automation, BIM and VDC |

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EDUCATION

National Institute of Technology (NIT-warangal)

MTech, Construction technology And Management

- **GPA-7.7/10**

Warangal, India

2017-2019

Narayanaguru College of Engineering (Anna University, India)

B.E, Civil Engineering

- **GPA-8.47/10**

Kanyakumari, India

2012-2016

INDUSTRY EXPERIENCES

Consultant VDC | Bexel India, Chennai, India

Sep 2021-Present

- Leading a research initiative by IIT-Palakkad and Bexel India. Implementation of Bexel Manager to streamline project delivery using BIM with Bexel Manager as the primary project management. Coordinated the 3D BIM Modeling phase for one of the major building in the Project.
- Supporting clients with 5D BIM implementation using Bexel Manager. Actively involved in the complete process of BIM Implementation from defining Project/Organization specific 5D BIM standard, Streamline the design management process using the 3D model and 4D/5D implementation for managing the construction phase.
- Developing POC and played a vital role in the initial technical pitching to clients.
- Prepared Integration/API documents to connect workflows between client systems with Bexel Manager.
- Automating BIM workflows using Bexel Manager to ensure streamlined information flow to and from the BIM authoring tools. Developed visual programming and pseudocodes in the BIM authoring tool to extract metadata from BIM model.
- Trained Project Engineers and BIM Professional with Bexel Manager.

Associate 5D BIM Consultant | Susema Info systems (Highbar Technocrat), Navi Mumbai, India Nov 2020-Aug 2021

PROJECT: 5D BIM implementation in Nagpur Mumbai Samrudhi Super Communication Expressway Ltd (NMSCEL)

- Took initiative as the OSO representative for successful implementation of 5D BIM in the NMSCEL project (Package 3-73 Km & Package 4:54 Km): Details of the BIM Deliverables : 3D Models (LOD 350) prepared using Autodesk Revit and Civil 3D (Total of 400 Structural Models and 110 Road Models). Construction Schedule using Primavera P6. Cost input using Schedule H and SAP. 5D Simulation using Bentley Synchro PRO.
- Actively involved in the system integration for digital project management for NMSCEL.
- Provided support to the 3D modelling team and Planning team to ensure the 5D BIM/EIR/BEP guidelines are followed.
- Worked on Bentley Synchro software to generate 4D models for almost 100Km of road stretch.
- Actively involved and provided project specific inputs for the system integration of a GIS-Web Application for monitoring the project from development stage to go-live stage
- Prepared Monthly, Weekly 5D BIM reports and 3D model tracker for the project.
- Conducted 5D BIM weekly review meeting and prepared MOM.

Project Coordinator/ MIS | Markolines Traffic Controls Private Ltd, Mumbai, India

Aug 2019-Mar 2020

- Actively involved in bidding and budget preparation for MMR and CIPR projects.
- Monitored two projects simultaneously using Earned Value Management-EVM (Took initiative and developed a system for EVM).
- Conducted performance evaluation to find out project variance.

- Digital Mapping of proposed project location using BIM tools Civil 3D, ArcGIS.
- Prepared contours surfaces, DEM , Alignments and Corridors using Civil 3D.
- 3D modelling using Autodesk Revit and preparation of schedule of quantities for documentation.
- Conducted feasibility studies and prepared report for setting up and commissioning of RF towers.

RESEARCH EXPERIENCES

Research Assistant | NIT Warangal

July 2018 -Dec 2018

Project Title: *Development of Road Information Modelling (RIM) based Coordination Method for Utility Relocations*

Funding Agency: *DST – SERB, Govt Of India.*

Principle Investigator: *Dr Aneetha V, Asst. Professor, NIT Warangal.*

- Assisted in digitalization part of the project: used a combination of BIM-GIS tools.
- Conducted field research in 2 underground utility construction project sites to collect data regarding the utility relocation practices followed by Utility agencies and authorities.
- Conducted feedback survey from contractors, consultancies and Govt authorities involved in the utility relocation and installation projects
- Provided research support, edited, redrafted, and commented on working papers.

M.Tech Dissertation | NIT Warangal

2018-2019

Title: *4D BIM Models for Smart Utility Relocation Management in Urban Infrastructure Projects*

Supervisor: *Dr Aneetha V, Asst. Professor, NIT Warangal.*

- Carried out an Empirical case-based research methodology.
- Used BIM-GIS environment for modelling underground utility information for aiding subsurface utility relocation. Tools Used: Civil 3D, QGIS, Google Earth,
- Prepared construction activity sequencing of utility relocation project using Oracle Primavera and developed a 4D simulation of utility installation and relocation using Autodesk Navisworks
- Drafted Conference paper, accepted for presenting at CIB-World Building Congress- 2019 on Constructing Smart Cities held at The Hong Kong Polytechnic University.

ACADEMIC EXPERIENCE

Teaching Assistant | NIT Warangal

July 2018 – June 2019

- Assisted in conducting weekly lab session for Masters students: Construction Project Studio Lab
- Conducted lecture session on various BIM tools: Revit, Navisworks, SketchUp, Civil 3D, BIM 360
- Supervised students in Lab projects.
- Assisted in preparation of course material including laboratory projects, exams, and practice problems

PUBLICATIONS & CERTIFICATES

- Vilyenthan, Aneetha; Razin, Sanu; R, Rajadurai."4D BIM Models for Smart Utility Relocation Management in Urban Infrastructure Projects" Facilities-Emerald Publications.
<https://www.emerald.com/insight/content/doi/10.1108/F-08-2019-0091/full/html>
- SYNCHRO PRO (4D Quick Start) Certificate by Bentley Institute
- PRIMAVERA P6 Training certificate by CAD CENTRE

VOLUNTARY ACTIVITIES.

Placement Co-ordinator | NIT Warangal

2018-2019

- Worked closely with Training and Placement cell Of NIT Warangal, to coordinate the placement activities of B. Tech, M. Tech, and Ph.D. students.
- Volunteered the placement activities for ensuring the smooth conduct of the placement process.

ACHIEVEMENTS & SCHOLARSHIPS

- GATE 2017 Qualified (graduate Aptitude Test in Engineering), Conducted by Indian Institute of Technology Roorkee: Score-548, All India Rank- 4512/129225 ,Percentile: 97.8%
- GATE Scholarship from Ministry of Human Resource Development, Govt Of India during M. Tech (2017-2019)

SKILLS AND INTEREST

- Technical Skills: **Proficiency in BIM tools:** Civil 3d, Revit, Navisworks, Arc GIS. **Scheduling tools:** Primavera, MS Project **4D/5D Simulation tool:** Bexel Manager, Autodesk Naviswork, Bentley Synchro PRO **Programming:** Dynamo (Visual Programming Tool) **Analytical Tool:** Excel, Power bi (basic)
- Language Skills: Malayalam (Native), English (Fluent), Hindi (Beginner)
- Interest: Football Team Captain at School and College, Participated in State level football tournaments.

REFERENCES

Dr. Aneetha V
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Department of Civil Engineering
Institute of Technology, Warangal
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