

THENNARASAN SELVARAJ (MIET)

BIM Coordinator & Digital Transformation Expert

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Profile

9+ Years in Advanced BIM Solutions | Digital Construction | Scan-to-BIM Leader | BIM Automation Innovator

Seasoned professional with 9 years of comprehensive experience in BIM implementation, digital twin development, and construction technology. Specialized in high-accuracy Scan-to-BIM workflows, BIM automation (Dynamo, Revit API), and multi-disciplinary coordination for large-scale infrastructure, hospitality, and residential projects. Adept at BIM standards (BEP/TIDP/MIDP), clash-free model delivery, and R&D for next-gen AEC workflows.

Core Strengths:

- ✓ **End-to-End BIM Management:** From laser scanning to LOD 500 models and digital twins
- ✓ **Process Optimization:** Custom scripts, plugins, and AI-assisted QA/QC for error reduction
- ✓ **Cross-functional Leadership:** Mentoring teams, client training, and BIM execution strategy
- ✓ **Emerging Tech Integration:** Point cloud processing, BIM+GIS convergence, IoT-ready models

Professional Experience

- BIM Coordinator-BIM | Digital Twins | BIM Automation, COWI India Pvt Ltd** 01/2026 – Present
- BIM Engineer -Scan to BIM | BIM | Digital Development, COWI India Pvt Ltd** 06/2023 – 12/2025
Chennai
- Develop, manage, and maintain 3D BIM models using Revit, Autocad, Microstation CE.
 - Developing Automations (Custom Revit plugins), Dynamo scripts to reduce the cycle time.
 - Effective collaboration between engineers and modelling team to get an error free model.
 - Prepare BIM-related documentation, including reports, schedules, and progress updates.
 - Proficient in BIM coordination, clash detection, and model management, leveraging BEP, TIDP, and MIDP to enhance collaboration, data accuracy, and project efficiency across multidisciplinary teams.
 - Providing support and training to junior BIM staffs on BIM processes and software.
 - Responsible for produce and revise the drawings to meet client standards.
 - Conduct regular quality checks to ensure model accuracy and consistency.
 - Skilled in troubleshooting and resolving errors in BIM workflows, ensuring seamless model coordination and data integrity across Revit, AutoCAD.
 - Experienced in R&D for BIM-CAD advancements, exploring innovative tools and methodologies to optimize project efficiency and automation.
- Sr. BIM Engineer- Scan to BIM | BIM, The BIM Engineers** 03/2022 – 05/2023
Chennai, India
- Leading & Managing Scan to BIM Projects
 - Assists in the preparation of firm development proposals.
 - Responsible for providing leadership and guidance of specific BIM technology to the diverse project team.
 - Manages BIM/ Scan to BIM implementation on large-scale projects
 - Independently chooses and creates a solution strategy
 - Supporting Sales/Business Development persons to get new clients to firms.
- Team Lead- Scan to BIM | BIM, Mapvista Geo Solutions** 12/2020 – 02/2022
Banglore, India
- Leading & Managing Scan to BIM Projects
 - Project initiation - Resource allocation - Execution planning
 - Finalizing and Making deliverable as per client requirement
 - Researching new methodologies to get better output.
 - Create families and tags and templates in Revit.
 - Estimating Project Manhours and Preparing Quotations/Proposals.
 - Supporting Sales/Business Development persons to get new clients to firms.
- Team Lead-BIM / Scan to BIM | BIM, Innovspatial Pvt Ltd** 09/2018 – 11/2020
Hydrebad, India
- Develop, manage, and maintain 3D BIM models using Revit & AutoCAD.
 - Observing client scope requirements and Planning project sequences
 - Initiating Project by Creating with specified Templates and standards and Worksets
 - Resource allocations and helping them to reach error free delivery
 - Finalizing and Making deliverable as per client requirement
 - Create families and tags and templates in Revit.
 - Researching new methodologies to get better output.

Mechanical Design Engineer,, Sree Srinivasa Engineers

- Making Shop drawings & BOM of OEM Parts of CNC/SPM Machines.
- Design Support for Retrofit of VMC & HMC & Turning Centre
- Research and Development Process in Cycle time reductions

09/2017 – 09/2018
Coimbatore, India**Junior BIM Engineer Scan to BIM, Magnasoft Pvt Ltd**

- Creating 3D Models of Architecture and Structural elements in Revit for Commercial Buildings,Airport,Theater,Railway Station, Malls etc. We worked as a team to deliver the Project.

06/2016 – 03/2017
Banglore, India**Computer Skills**

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|-----------------------------|----------------------|-------------------|
| • Revit | • AutoCAD | • MicroStation CE |
| • Solidworks | • Autodesk Recap Pro | • Navisworks |
| • Lieca Cyclone/Register360 | • MS Office | • BIM 360 |
| • Projectwise | • Dynamo | • Revit API C# |

Academic Education**Master of Business Administration-Operations Management, LJ CET**

10/2018 – 05/2020

Bachelors of Mechanical Engineering, Dr SACOE

08/2012 – 05/2016

Projects Coordinated**Transport | Rail | Large Scale Terminals:**

- TRU W2 ES4 Design - Rail + Tunnels - On Going
- Seattle Tacoma Airport Baggage area Completed in 2021

Automations | Digital Developments

- Created Customized Revit plugin "GeoButtons" ,Contains many useful buttons for Scan to BIM Process.
- Working on Digital development ideas to Automate the BIM process.

Commercial & Hospitality:

- Velliv, Pension- Livsforsikring A/S | Denmark, completed in 2025
- JABRA GN Nord Hearing | Denmark, completed in 2024
- TioTech AS | Norway,Completed in 2023
- Millani High School Auditorium, Hawaii, USA, completed in 2020

LaserScan Registration:

- Waikiki Beach Marriott Resort Honalulu USA -registration using RTC360 Lieca-2020
- Facebook Building LAX Area -Using RTC360-2022

Oil and GAS Industries:

- MC Salt Refinery plant ,Completed in 2021
- Oil the rowan gorilla vii rig,Completed in 2022

Utilities | Waste Management:

- Borealis - Pipeline Stenungsund -Sweeden,Completed in 2024
- HOFOR waterworks at Regnemark,Denmark,Completed in 2023
- Overføringsledning Kambo RA - Fuglevik RA,Completed in 2023

Personal Informations

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| • Language : English ,Tamil | - Marital Status :Married |
| • Address : Tirunelveli ,Tamilnadu,India | - Alt Number :+91-6383261034 |

Declaration

I hereby declare that all information furnished above is true to the best of my knowledge.

Thennarasan Selvaraj