



BHARAT BHUSHAN (M. Tech | RICS)
Project Digital Delivery Manager – BIM/VDC
 Contact: +966-57-010-5226
 E-Mail: bb.bhushan7790@gmail.com



Extensive experience in spearheading BIM management, coordination, implementation, building services engineering & Revit MEP designs with hands-on experience in global project execution and attending global project review meetings with focus on accomplishing organizational objectives

Profile Snapshot

A versatile & result BIM Process Management/Building Service Engineering Professional with over 13 years of experience in:

VDC/BIM Coordination/Implementation
 Team Management

3D Rendering, 4D Simulations

Coordination/MEP Services Cost Estimation/BOQ

ISO: 9001, ISO: 19650, BIM 360, ACC & EarthCam

RICS BIM Management

BIM Presentation

Staff Training

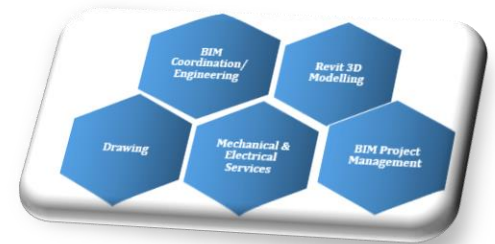
QMS Compliance

HVAC (Ducting & Piping System)

Electrical, Plumbing & Fire Fighting

Design Viewer Model Presentation

- Currently working with **Nesma & Partners** as a **Project Digital Delivery Manager – BIM/VDC** holds the distinction of holding major client, DGCL for Samhan Car Parking, Zallal Al Bujairi Phase-2&3, Gyrotory tunnel, Samhan Mix Use and Event District Carpark.
- Pinnacle InfoTech Solutions Jaipur, India as a BIM Manager holds major clients for USA/UK and Gulf like: The Springs Living Happy Valley, McVeigh & Mangum Engineering, Inc, Smyrna, Smoot Construction, Washington, Kibart Consulting Engineers, Towson, DAEP (Dubai Aviation Engineering Projects), Lusail Stadium & Precinct (Doha Qatar) so on.
- Redco International Doha, Qatar as a BIM Lead Coordinator Holds the distinction of handling major projects for clients like Doha Metro Green Line Underground Project, Phase 1
- Midfield Terminal Building (MTB), Abu Dhabi, UAE, Louvre Museum, Abu Dhabi, UAE, KASC King Abdullah Sports City, Jeddah, KSA, Birwa Commercial Avenue Project (Shopping Malls-8.5Kms), Doha, Qatar, Supreme Education Council, Doha, Qatar.
- Experience in managing Revit MEP design & implementation, standards and library organization
- Expertise in coordinating with all related disciplines through Engineering Manager, BIM Manager & Project Engineers
- Proficient in attending workshops meetings for BIM and bring back learning and disseminating the information to the team
- Skilled in converting Revit Models into Navisworks for presentation, engineering review and submission to main contractor or clients
- Sound knowledge of Mechanical Ducting, Mechanical Piping, Drainage, Rainwater, Water Supply, Fire Protection System & Electrical services and MEP Builders work drawings
- Capable of organizing project review meetings for evaluating progress & de-bottlenecking of the project
- A keen communicator with excellent negotiation, analytical, planning & team management skills



BIM Acumen

- BIM Maestro:** Acclaimed for orchestrating project triumphs through the strategic deployment of **Building Information Models (BIM)** in expansive construction ventures. Steer projects from conception to completion with finesse, wielding expertise in **directing BIM integration, workflow streamlining, and standards enforcement.**
- Execution of **BIM lifecycle** and meticulous documentation encompassing **Employer Information Requirements (EIR), Asset Information Requirements (AIR), Level of Information Need (LOIN), Pre-Contract BEP, Post-Contract BEP, and establishment of BIM Standards (both internal and project-specific), among others.**
- Demonstrate hands-on proficiency in Navisworks, **adeptly managing Clash Detection, Search sets, and Animation video Time Liner production.** Skillfully maintain **issue tracking logs and digital logs on ACC**, diligently following up to ensure swift conflict resolution.
- Boast extensive expertise in **ISO-19650 standards**, coupled with adeptness in **Documentation and Graphics generation, Power BI analytics, Clash detection, reporting, and resolution.**
- Renowned for seamlessly **integrating project delivery mechanisms** and championing the adoption of state-of-the-art **BIM technology** within the organization by advocating for **virtual design and coordination.**
- Possess extensive experience in **(CDE), including ACC, BIM 360, ProjectWise, Procore, Aconex, and Egnyte.**
- Develop the **Asset Information Model (AIM)** incorporating relevant **O&M data using COBie schema** to facilitate a seamless transition to the facility management phase.



- Efficiently plan, assign, direct, and oversee team members' work to ensure project continuity. Conduct thorough interference checks among Architectural, Structural, and MEP disciplines, resolving clashes using BIM tools like Navisworks for comprehensive design reviews.
- Thoroughly verify all disciplines' work for proper coordination and alignment with building requirements, ensuring seamless construction execution.
- Creating **shop drawings in separate Revit files linked** to the main model to optimize performance, streamline revisions, and minimize software crashes.
- Converting **Revit models to Navisworks for presentation**, review, and submission to PMCs, enabling enhanced visualization, collaboration, and project coordination.
- Engaged in project meetings with clients and coordinate with appointed parties for contractual or works-related matters
- Expertise in executing the project from concept stage (**LOD 100**) to **As Built Stage (LOD 500)**.

Technical Purview

- Revit MEP
- Navisworks
- AutoCAD
- Revit Add Ins – DiRootsOne, eTLipse, BIM One, Speckle & Pangolin
- Power BI
- BIM 360, ACC, ProjectWise, Procore, Aconex & Egnyte
- BIM Interoperability
- MS Office
- Bexel Manager
- EarthCam & Open Space
- Operating Systems: Windows 98/2000/XP/Vista/Win 07 & 08/Linux Ubuntu IOS.

Certifications

- RICS BIM Management
- BIM-VDC for Construction
- BuildingSMART Professional Certification – Entry
- Information Manager certificate level – 1
- Power BI Data Modelling
- Autodesk certificate on Account Administration
- Autodesk certificate on Project Administration
- Autodesk certificate on Design Collaboration
- Autodesk certificate on Autodesk Docs
- Autodesk certificate on Build
- Autodesk certificate on Migration from BIM 360
- Autodesk certificate on Configuration Migration
- Autodesk certificate on Insight
- Autodesk certificate on Model Coordination

Organizational Experience

Nov 2022 – Till Date Nesma & Partners Saudi Arabia, as a Project Digital Delivery Manager – BIM/VDC

Project handled:

- Diriyah Gate Company Limited (DGCL) Samhan Car Park, Riyadh, Saudi Arabia
- Diriyah Gate Company Limited (DGCL) Zallal Al Bujairi (Phase-2&3), Riyadh, Saudi Arabia
- Diriyah Gate Company Limited (DGCL) Gyrotory Tunnel Western Ring Road, Riyadh, Saudi Arabia
- Diriyah Gate Company Limited (DGCL) Event District Car Park, Riyadh, Saudi Arabia
- Diriyah Gate Company Limited (DGCL) Samhan Mix Use, Riyadh, Saudi Arabia



Key Result Areas:

- Implementing **BIM/VDC standards** in accordance with **ISO 19650** and client specifications.
- Develop and maintain comprehensive **templates and guidance documents** to thoughtfully meet **DGCL BIM requirements**.
- Provide supportive assistance in evaluating **subcontractors' BIM capability, capacity, and technical prowess**.
- Formulate precise **Pre and Post-Contract BIM Execution Plans (BEP)** and **Exchange Information Requirements (EIR)** with careful consideration of Appointing Party standards.
- Execute a seamless implementation of a **common data environment** and collaborate harmoniously with **(PMCs)**.

- Conduct thorough validation of **model quality** in strict accordance with **ISO 19650** standards, ensuring a supportive environment for subcontractors.
- Establish a robust **digital issue tracking system** to facilitate coordination on the **ACC platform, promoting smooth communication.**
- Vigilantly monitor **BIM project execution documentation**, including **MIDP/TIDP**, with a focus on fostering collaboration.
- Provide gentle guidance on progress and outstanding **issues, delivering** comprehensive yet supportive **weekly/monthly progress reports.**
- Oversee **day-to-day BIM** activities with a supportive approach, fostering a collaborative environment.
- Offer prompt and adept **ad-hoc support to subcontractors throughout all project stages**, ensuring their success in meeting **BIM requirements.**
- Encourage **subcontractors to adhere to BIM deliverables**, promptly addressing **comments/changes** with a supportive attitude for optimal project outcomes.
- Efficiently **extract quantity take-offs from the model** to support Facility Management needs.
- Foster **seamless execution of operations** by ensuring gentle coordination and clear communication.
- Collaborate graciously with multiple appointed parties to **fulfill client requirements and meet project milestones.**
- Lead and facilitate **BIM meetings and workshops with project teams in a supportive manner.**
- Offer patient support to project team members and **non-VDC specialists in utilizing VDC/BIM tools effectively.**
- Assist kindly with **reality capture technologies** and field measurements to develop **accurate models of existing conditions.**
- Attend project review meetings with a gentle approach to **evaluate progress and address outstanding issues promptly.**
- Ensure compliance **with BS EN ISO 19650 BIM Codes** for all produced deliverables with care.
- Create and maintain the **project Navisworks Federated** model with attention to **clash detection and search sets.**
- Encourage the **development, implementation**, and gentle enforcement of **BIM standards to improve productivity.**
- Prepare **4D scheduling** thoughtfully to meet client requirements with care.
- Independently devise and develop solutions to challenges with patience and understanding.
- Create and publish **Federated Models** for project use with a gentle touch.

Jul 2018 – Oct 2022 Pinnacle InfoTech Solution, Jaipur, India as a BIM Manager (Team Member: 40+)

Major US/UK & Middle East projects handled: -



- The Springs Living Happy Valley: Portland, Oregon
- White Flint Substation: Rockville, Maryland
- Fort bend Wastewater Treatment Plant: Missouri, Texas
- Denver Public School: Stapleton Park St 1 – Addition (Greenwood Village)
- Canopy Hotel (North Carolina)
- Buckhead Senior (Smyrna)
- Seven Rivers Church (North Carolina)
- Iris (North Carolina)
- Dr. Pepper (Kildare, Ireland)
- Intel
- Dubai international Airport (Dubai, UAE)

Key Result Areas:

- Study the **contractual and project documents** i.e., **project specifications, design drawings, scope of work, deliver** schedules etc.
- Keeping a record of **BIM models** and their status & monitor shared data and relationships between models.
- Prepared signification documents like: **Delivery schedule, input-output log, specification check list, RFI log, BEP, submission check list, assumption and discrepancies log and so on.**
- Resources Management, Creation of **WBS, preparation of BIM execution** plan for the projects.
- Form project teams as per requirement and **Monitor daily activities** of all the projects' teams.
- Reviewing Clash coordination **between Architectural, structure & MEP services, and RFIs, prior to sending clients.**
- Model up gradation by adding the **value engineering & conductivity factors**
- Make sure that all the deliverables have been gone through **company's ISO certified QA QC** processes prior to submitting to client.
- Coordinating with an understanding of **on-site installation and off-site manufacture.**
- Create and maintain **BIM software templates.**
- Managing BIM Modeling team to execute **LOD 400 and LOD 500 models.**
- Manage internal training and maintain a continuous education of BIM and tools.
- Create and **implement quality control process.**
- Responsibility for managing the company's **internal BIM steering group and chairing meetings.**
- Do daily projects review meeting with **Assistant or Deputy Managers.**
- Assigned hours **on BPMS to PM (Project Manager)** and he/she assigned to team members.
- Responsible for set-up and direction of **BIM workflow** on assigned projects on **BPMS.**
- Providing training for software's and learning tools like: 4D simulation, Constructability, Bluebeam, Dynamo scripts and BPMS so on.
- Created **monthly assessments** report for all team members.
- Using Egnyte, **CDE, BIM 360 & one drive** for Models Submission with Navisworks Files and **Weekly update submission** of Models and Navisworks Files.



Green Line Metro Stations: -

- Al- Shaqab Station
- Al- Qadeem Station
- Al- Messila Station
- The White Palace
- Hamad Hospital
- Education City
- Switchbox
- Trough

Key Result Areas:

- Above projects consists of **16.6km of twin bored tunnels, 8 underground stations, built at a depth of 20 meters.** This project spans from **Msheireb (Central Station) through to Education City and on to Al Rayyan.**
- We worked **54 Cross Passage in Underground Tunnel.**
- Coordinating and managing multi-discipline design documentation, processes and **BIM data for the Qatar Rail Green Line project.**
- Lead non-design team, construction and as-built related BIM activities on **Doha Metro Green Line Underground project.**
- Creating and modifying **3D models** for the purpose of **4D sequencing.**
- Planning and executing **3D design coordination** (clash detection) for MEP works in stations of the **Doha Metro project.**
- Assist designers / engineers for the understanding of the **3D models.**
- Initiating clash runs and analyzes the clashes and distributed it to respective persons for coordination.
- Using Aconex for Model Submission with Navisworks Files and Weekly update submission of Models and Navisworks Files.

Project Involved:

Project: Doha Metro Green Line Underground Project, Phase 1
Client: Qatar Rail
Consultant: Hoare LEA
Main contractor: Porr Saudi BinLadin HBK (PHS)



Key Result Areas:

- Leading the **BIM implementation process** and managing the implementation of supporting BIM software.
- Responsible for **BIM Development, standards and protocols.** Staying updated with **BIM technology** and trends.
- Create and maintain BIM software templates.
- Manage BIM software libraries. And manage Revit families' creation.
- Automate routines to maintain standards and improve efficiency
- Create and **implement quality control process.**
- Create process to generate and update BIM models.

Project Involved:

Project: Midfield Terminal Building Airport, Abu Dhabi, UAE
Client: ADAC (Abu Dhabi Airports Company PJSC)
Consultant: Arup
Main contractor: Tav Consolidated Contractors Company Arabtec (TCA)



Key Result Areas:

- Keeping a record of **BIM models** and their status & monitor shared data and relationships between models.
- Managing for **Revit MEP design, implementation, standards and Library organization.**
- Running Interference check between **Arc, STR, and MEP disciplines.**
- Checking for the **Modeling & engineering clashes** for design reviewing using BIM tools Such as **Navisworks.**
- Coordinating with Structural, Architectural and MEP Services against clashes.
- Working on **Modeling process and Coordination, Preparation** of submission of **MEP Model** for approval and **Shop Drawings.**
- Coordinating with an understanding of **on-site installation and off-site manufacture.**
- Preparing **2D Standards, Generating Annotations, Tags, Symbols, Text Style, Fonts, Line Weights, Line types, Colors Codes, Legends, Notes, Hatch Styles, Revit MEP Sheets, Key plans, Views, Sections, 3D Views, View Templates** for shop drawings and title blocks on **the Revit model.**
- Using Aconex for Model Submission with Navisworks Files and Weekly update submission of Models and Navisworks Files.

- Converting **Revit MEP Shop Drawings into AutoCAD and PDF** for submission and Engineering Review.

Project Involved:

Project: Louvre Museum, Abu Dhabi, UAE
Client: TDIC (Tourism and Development Investment Company)
Consultant: BuroHuppold
Main contractor: Arabtec Sanjose Oger (ASO)

Feb 2013 – Jan 2014 Thermo LLC, Group of Union Properties, Dubai, UAE as a MEP BIM Coordinator

Key Result Areas:

- Coordinated with Structural, Architectural and MEP Services against clashes.
- Run interference check between **ARCH, STR, and MEP disciplines**. Check for the Modeling and Engineering clashes for design review using BIM tools Such as Navisworks.
- Working on Modeling process and Coordination, Preparation of submission of **MEP Model for approval and Shop Drawings**.
- Created Parametric and Non-Parametric families for Project needs.
- Prepared Shop Drawings, Generating Annotations, Tags, Symbols, Text Style, Fonts, Line Weights, Line types, Colors Codes, Legends, Notes, Hatch Styles, Revit MEP Sheets, Key plans, Views, Sections, 3D Views, View Templates for shop drawings and title blocks on the Revit model.
- Ensured MEP specifications and changes are reflected quickly and accurately with the project files.
- Visited to **Saudi Arabia** for **As-Built Changes in Revit Models** for making As-Built Drawings.



Project Handled:

Project: KASC King Abdullah Sports City, Jeddah, KSA
Client: Aramco
Consultant: ARUP
Main contractor: MSX (Al Muhaidib Six Construct)

Sep 2011 – Jan 2013 SEMAC QATAR W.L.L as a Mechanical Engineer (BIM Modeler)

Key Result Areas:

- To do modeling of various trades like **Mechanical, Plumbing, Electrical, Firefighting so on**.
- MEP coordination with all services and preparation of Navisworks model.
- Preparation of shop drawing like **Firefighting, Plumbing, HVAC** service so on.
- Tracking the Inputs document, **RFI issues and project submission schedule**.
- Installation of various services of **3D Model using Revit MEP**.
- Coordination of the model.
- Tracking the Inputs document, **RFI issues**.



Projects Handled:

- Barwa Commercial Avenue Project (Shopping Malls-8.5Kms), Doha, Qatar.
- Supreme Education Council, Doha, Qatar.

Academic Details

Master Degree in Mechanical Engineering

IT Skills: DOS, Windows, MS Office (Paint, Word, Excel, PowerPoint)

Personal Details

Gender : Male
Nationality : Indian
Marital Status : Married
Languages : English, Hindi
Passport number : U3930848
Visa Status : Employment Visa
KSA Driving License : 2533525479