

TUN ZAW OO

BIM Coordinator | MEP BIM Coordinator | Revit MEP | Navisworks Manage | Autodesk Construction Cloud | ISO 19650 | BIM Automation

UK Work Eligibility: Potentially eligible for the UK High Potential Individual (HPI) route based on my NTU MSc (2024). HPI application planned. Available to relocate from Singapore within 3 months of an offer.

Phone: +44 7593 174758 | Email: tun@tunzawoo.com | LinkedIn: <https://www.linkedin.com/in/tunzawoo>
Portfolio: <https://www.tunzawoo.com/portfolio/>

PROFESSIONAL PROFILE

MEP BIM Coordinator and Mechanical Engineer with 15+ years of experience in MEP/fire protection engineering, including approximately 9 years of BIM coordination and digital project delivery experience since 2017. Experienced in Revit MEP, Navisworks Manage, Autodesk Construction Cloud (ACC), Revizto and Dynamo, with hands-on responsibility for multidisciplinary model coordination, model federation, clash detection, issue resolution and model QA/QC. Practical experience applying ISO 19650 principles and CDE workflows to structured information delivery, including model status, information quality and coordination processes. Strong building services and fire protection engineering background, supported by hydraulic calculation and construction coordination experience. ISO 19650-2:2018 Project Information Management Practitioner certified by BRE Global. Seeking BIM Coordinator, MEP BIM Coordinator and Fire Protection BIM Coordinator opportunities in the UK.

CORE SKILLS

BIM Coordination: MEP and multidisciplinary coordination; design coordination; model federation; federated model review; clash detection and resolution; issue tracking; model QA/QC; Revit project setup; shop drawings.

BIM Information Management: ISO 19650 principles; CDE workflows; information requirements; information status and suitability; naming conventions; BEP / EIR requirements and task-team information delivery; TIDP preparation; MIDP coordination and dependency tracking; Level of Information Need (LOIN); IFC; COBie.

Software & Tools: Autodesk Revit / Revit MEP; Autodesk Navisworks Manage; Autodesk Construction Cloud (ACC); BIM 360; Aconex; Revizto; Dynamo; AutoCAD; Python; Revit API; Microsoft Excel; FHC hydraulic calculation software

MEP / Fire Protection: Sprinkler systems; wet and dry risers; hydrants; hose reels; fire alarm; fire suppression; foam-water, pre-action and deluge systems; hydraulic calculations; fire authority submissions (SCDF); site supervision, testing and commissioning.

Standards: NFPA 13, NFPA 2001, NFPA 409, SS CP 52; technical knowledge of BS EN 12845, BS 9990 and BS 9251.

BIM Automation: Dynamo and Python scripts for sleeve and wall-opening placement, hanger modelling, model health and compliance checking.

SELECTED BIM & DIGITAL DELIVERY ACHIEVEMENTS

- Developed Dynamo/Python automation for sleeves, openings, hangers and model QA, reducing repetitive tasks from hours to minutes in illustrative comparisons while improving modelling consistency and data quality.
- Coordinated fire protection BIM delivery from Revit project setup through federated model review, clash detection and issue resolution, supporting QA-checked coordinated models for construction documentation and authority submissions.
- Applied ACC/CDE workflows and ISO 19650 principles to model status, information quality checks and structured information delivery across fire protection BIM projects.

PROFESSIONAL EXPERIENCE

Tong Loong Engineering Pte Ltd, Singapore

Apr 2013 - Present

Design Manager / BIM Coordinator – Fire Protection

Jan 2022 – Present

(BIM Coordination, Digital Delivery & Fire Protection Design)

Senior Design Engineer / BIM – Fire Protection

Jun 2017 – Dec 2021

AutoCAD Designer

Apr 2013 – May 2017

- Coordinate fire protection BIM delivery in Revit MEP from project setup and model development through multidisciplinary coordination, clash resolution, QA/QC and construction documentation.
- Federate architectural, structural and MEP models and run clash detection in Navisworks Manage; track coordination issues with other disciplines through to resolution.
- Coordinate multidisciplinary BIM review meetings with consultants, subcontractors and project stakeholders, tracking actions and driving coordination issues through to resolution.
- Manage and coordinate project information and models within Autodesk Construction Cloud (ACC), supporting CDE workflows, information status, naming conventions, version control and structured information delivery in accordance with project requirements and ISO 19650 principles.
- Developed 10 Dynamo/Python automation tools for BIM modelling, QA and coordination, including sleeves, openings, hangers and model health checks. Examples include processing 121 MEP elements and checking 16,276 sprinkler elements, with illustrative task comparisons reducing repetitive work from hours to minutes.
- Design and coordinate sprinkler, riser, hydrant, hose reel, fire alarm and suppression systems, including hydraulic calculations using FHC, ensuring engineering design intent is accurately represented in coordinated BIM models.
- Prepare fire protection documentation for statutory authority submissions and coordinate design requirements with authorities, consultants and contractors.

Myanmar Beca Co., Ltd., Yangon, Myanmar

AutoCAD Designer

Sep 2011 - Jan 2013

- Produced fire protection design and construction drawings using AutoCAD, including automatic sprinkler systems, fire alarm systems, wet and dry risers, hose reels, hydrants and fire extinguishers.
- Prepared shop drawings for approval and coordinated drawing requirements with M&E subcontractors and project stakeholders.

Top Wave Engineering Co., Ltd., Yangon, Myanmar

Site Engineer

Dec 2010 - Jul 2011

- Supervised fire protection and plumbing installation works in accordance with drawings and specifications.
- Carried out site inspections, testing and commissioning, monitoring quality and progress.

SELECTED PROJECTS (SINGAPORE)

Featured in portfolio: Parry Avenue Assisted Living (Perennial) – ISO 19650 task-team case study; Lonza Biologics 2KL Expansion (pharmaceutical); Tee Yih Jia Food Hub (45 m High ASRS Cold Store); Singapore Institute of Technology (SIT) Annexe; Pasir Panjang Bus Depot.

Other projects: Qualcomm Building; Bedok Food City; ACW Building; Yang Kee Chemical Warehouse; Bright Vision Community Hospital; Kwong Wai Shiu Hospital; Bukit View Primary School; HDB Dawson C3; HDB Serangoon North C21; Hangar 1630C2.

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

- ISO 19650-2:2018 Project Information Management (PIM) Practitioner - BRE Global, Aug 2026 (*Cert. No. BREP10354*)
- ISO 19650-1 & 19650-2 Project Delivery - BRE Academy, 2026
- ISO 19650 Delivering Information Management in Practice - BRE Academy, 2026
- Modular MEP Design & Prefabrication (BCA-STAS) - BCA Academy, 2026
- Automation BIM Essential (Dynamo) - Autodesk, 2026
- Autodesk Revit MEP 2017 Level II Advanced - Autodesk, 2016

EDUCATION

- MSc, Mechanical Engineering - Nanyang Technological University (NTU), Singapore | 2021 - 2024
- Specialist Diploma in Virtual Design & Construction (VDC) - BCA Academy, Singapore | 2020
- Specialist Diploma in Building Information Modelling (BIM) - BCA Academy, Singapore | 2018 - 2019
- BEng, Mechanical Engineering - Yangon Technological University, Myanmar | 2005 - 2010