

RICHARD JOSHUA ABRAHAM



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Richard J Abraham



GitHub/Portfolio

EDUCATION

Master of Science in Building Information Modelling (BIM) Project Management [Sep 2025 - Sep 2026]
Queen's University Belfast – Northern Ireland, United Kingdom (*Currently Pursuing*)

Bachelor of Science in Fire and Industrial Safety, Faculty of Engineering and Technology [Jun 2016 - May 2019]
Annamalai University / National Institute of Fire and Safety – Tamil Nadu, India.

Diploma in Electrical & Electronics Engineering, Directorate of Technical Education [Jun 2019 - Mar 2021]
PSG Polytechnic College – Tamil Nadu, India

PROFESSIONAL EXPERIENCE

CMLC Consulting LLC, Kentucky, USA (Remote, India)

BIM MEP Engineer

[Jul 2024 – Aug 2025]

BIM Electrical Coordinator

[Dec 2023 – Jun 2024]

- Served as POC and key team member, facilitating seamless communication and clash coordination among architects, engineers, contractors, clients, and vendors throughout the project lifecycle.
- Worked on CDEs like Autodesk Construction Cloud (ACC), PROCORE Construction, BIM 360 and BIM-Track to ensure effective collaboration and assisted with developed Shop drawings and As-built drawings.
- Developed and assessed the quality of comprehensive Electrical BIM models and families up to LOD450.
- Ensured full compliance with established U.S. standards, including NFPA, NBIMS-US, NEC and ISO19650.
- Proactively developed strategies alongside managers for data encryption, interoperability challenges, decision logs, utilizing industry standards like IFC (Industry Foundation Classes) in ensuring smooth progress and maintaining compliance with basics of ISO 19650-1,2 and COBie (Construction Operations Building Information Exchange).
- Contributed my expertise in US based BIM MEP Projects such as,
 - META Data Centre, Indiana
 - GCCS Charlestown Elementary School, Kentucky
 - Pike Elementary School, Indiana
 - Aquatic Gymnasium Centre, Kentucky
 - University of Louisville, Kentucky
 - Parkwood Elementary School, Indiana

Glass Maestro Industries LLC, Dubai, UAE (On-Site)

Health and Safety Engineer – Factory Initiation

[Feb 2023 – July 2023]

- Implemented risk assessments, work method statements & incident reporting procedures to eliminate or reduce workplace injuries and hazards before commencing the factory operations.
- Advised & instructed in critical and heavy lifting of loads under highly critical and challenging work environments by adhering to standards of Lifting Equipment Engineers Association (LEEAA).
- Implemented Point of Work Risk Assessment (POWRA) in the production flow including cutting, CNC machining, drilling, sandblasting, tempering, double-glazing and autoclave processes as per Glass and Glazing Federation, UK.
- Coordinated with Dubai Municipality (DM) and Dubai Civil Defence (DCD) for factory infrastructure design with structural norms and adherence of the same with zero Lost Time Incidents (LTIs) maintenance.

SAKA Group of Companies, Abu Dhabi, UAE (On-Site)

HSE Engineer – Civil & MEP Projects

[May 2022 – Feb 2023]

- Assisted in MEP design & Revit models upgradation for ADNOC (Abu Dhabi National Oil Company) Headquarters & ADNOC Business Centre DLP projects, Louvre Museum Abu Dhabi, OCS, Sinyar Properties, Sheikh Shakhboub Medical City (SSMC), Ejadah Facility Management, Bani-Yas Facility Management & Morganti projects.
- Updated and implemented existing programs, policies, Risk Assessment Method Statement (RAMS) and Personal Protective Equipment (PPE) management to reduce workplace hazards as per OSHA & NEBOSH UK standards.

- Monitored and assisted HVAC system installations like AHUs, FAHUs VAVs, etc. as per ASHRAE & SMACNA, armour cables routings, fire pumps and chilled water piping systems installation and testing, retrofitting, etc.
- Studied and assessed smoke (VESDA system), heat and flame detectors as per design documents.
- Instructed and trained workers in installation of panels, motors, cable trays, conduits, cables, lighting fixtures, and safe use of high voltages (up to 11KVA) with PPEs.

CARBURE Activated Carbon Private Limited, Coimbatore, India (On-Site)

Fire and Environmental Safety Officer

[May 2021 – Apr 2022]

- Inspected warehouse buildings, offices, exits, Piping & Instrumentation Drawing (PID) to locate unsafe conditions and fire code violations, accumulations of combustible material, defective electrical wiring and fire exit.
- Managed occupational risk in the process of Pyrolysis within heating chambers and high temperature processing using QRA (Quantitative Risk Assessment) and FRA (Fire Risk Assessment) in the granule collection bay.
- Inspected and monitored replacement of faulty fire safety system, hydrant & sprinkler systems and fire extinguishers and distribution components such as MCBs, ELCBs, RCDs, GFCIs and panel board for terminal connections.
- Coordinated in development of fire prevention programs, fire inspections and internal audits, hazardous and waste materials management with local contractors and vendors.

G. Ramamoorthi Constructions India Private Limited, Coimbatore, India (On-Site)

Construction Safety Officer – Civil Projects

[June 2018 – May 2019]

- Deployed as a construction safety officer at Srivari Ekantam (4,16,250 sq.ft) and Casagrand Verdant (3,92,040 sq.ft) under a well-established team of engineers for almost 250 construction workers of different trades.
- Ensured compliance with national and local safety regulations and standards, such as the Factories Act 1948, Building and Other Construction Workers (BOCW) Act and Indian Green Building Council (IGBC).
- Documented and maintained safety records like Incident Reporting & Investigation forms, training logs, incident reports, safety inspections, Walkthrough checklists and Corrective Action Preventive Action (CAPA) plans.
- Aided in 2D design updation of modified Electrical drawings for apartments.
- Responsible for making Single Line Drawings (SLD) circuit modifications, sprinkler design schematics and Piping Instrumentation Drawings (PID) in Sewage Treatment Plant (STP) and vehicle parking areas.

SUPPLEMENTARY EXPERIENCE

ZION Electrical and Plumbing Solutions, Coimbatore, India

Co-Proprietor

[Aug 2020 – Jul 2025]

- Supervised a team of electricians and plumbers in project completion (5,00,000 sq.ft. approx.) including Chil-Sez IT park, Orbis Hotels, GKNM Hospital, JC Industries, FORCE Autos and Swan Filaments.
- Prepared detailed electrical and plumbing estimates, quotations, and contract documents, as well as client invoices and billing statements.

SOFTWARE PROFICIENCY

Autodesk REVIT | Navisworks | AutoCAD | Revizto | BIMTrack | PROCORE Construction | Autodesk Construction Cloud | BIM-360 | PyroSIM | Share-point | SAP | ASTA Power Project | BlueBeam Revu | Adobe Photoshop | MS-365

CERTIFICATIONS & LICENCES

- Autodesk Revit MEP
 - Software Tools & Schema Integration into BIM to FSE Workflows (Society of Fire Protection Engineers - SFPE)
 - Sustainable & Fire Resilient Building Environment (Society of Fire Protection Engineers - SFPE)
 - Association for Project Management (APM) – Student Member
 - The Chartered Institute of Building (CIOB) – Student Member
 - NEBOSH – International General Certificate (IGC), UK
 - IELTS Academic - Overall Band 8
 - SAP - EHS
 - Safety in Utility Industry - University at Buffalo, USA
 - Electrodynamics: Electric & Magnetic Fields - Korean Advanced Institute of Science & Technology (KAIST)
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