Mayilvaganan. M EngTech, MICE.,

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Carrier Objective:

I am an experienced civil engineer with eight years of expertise, actively seeking an opportunity to apply my acquired skills and knowledge to accomplish challenging targets. My dedication to continuous learning and contribution to the existing knowledge base of the organization ensures that I can deliver results within specified timelines for mutual benefit. With extensive knowledge in structural modeling techniques, parametric modeling, drafting, rebar detailing, and engineering drawing, I possess the proficiency to interpret and implement structural designs effectively. My demonstrated ability to work independently enables me to produce professional error-free 2D drawings and clash-free 3D models. Moreover, my meticulous attention to detail, combined with the skillful management of multiple projects within demanding timeframes, further enhances my capabilities.

Experience- 8 Years

Modelling and Detailing Experience in ACI standards USA, British standards UK & UAE Buildings and Bridges projects.

Educational Qualification

Examination	Institution	Year	Percentage
Diploma in Civil Engineering	Govt Polytechnic College, Krishnagiri	2013-2015	84%
12th	Govt. High School, Jayapuram	2011-2013	84%
10th	Govt. High School, Jayapuram	2010-2011	86%

Certification's

I got professional accreditation (**Eng Tech**) from the **I**nstitution of **C**ivil **E**ngineers (**ICE UK**) and A member of **NCE**.

Worked with major projects.

I have worked many jobs in the past few years. Some of projects are as follows,

- ➢ **ONE BLACKFRIARS ROAD'S,**
- ➢ **LYON SQUARE,**
- ➢ **HARROWDEN BROOK CULVERT WIXAMS,**
- ➢ **HINKLY POINT C (Nuclear Power Plant),**
- ➢ **LAAYOUNE,**
- ➢ **FARGO MOORHEAD RAIL BRIDGE (USA),**
- ➢ **CAMBRIDGE INTERCHANGE BRIDE (CANADA)**

Employment History:

Current Employer

COWI INDIA (P) Ltd.

Previous Employer

- **ATKINS, A member of the SNC-Lavalin Group - India,**
- **CADS Software India (P) Ltd – India**

Key strengths:
- ➢ Digital Engineering and Automation
- ➢ Integrated Project Delivery/Collaborative Working
- ➢ Model viewing platforms Navisworks Manage, Trimble Connect
- ➢ Supported development of quality assurance/ digital tools used to continuously improve 3DRC model quality & design tools
- ➢ Reinforced Concrete Detailing
- ➢ Package Management
- ➢ Team Management
- ➢ Reinforcement Optimization
- ➢ Buildability Reviews
- ➢ Finding Clash & De-Clash
- ➢ BIM Execution Plan
- ➢ Proof of Concept Studies in ACI, Euro & BS Codes.

Computer skills:
- ➢ Auto Cad
- ➢ Cads RC
- ➢ Rebar Cad
- ➢ Tekla Structures
- ➢ Trimble Connect
- ➢ Navis Works
- ➢ Nova Point
- ➢ Grasshopper(rhino)
- ➢ Python
- ➢ Autodesk Inventor
- ➢ Revit
- ➢ Civil 3D(basic)

Personal Information:
Father Name: Munirathinam
GENDER: Male
Marital status: Married
Date of birth: 14ND Jun 1996
Passport number: T6237133
Languages Known: English & Tamil
Nationality: Indian

Job Duties & Responsibilities

Experience with COWI India Pvt Ltd.   (Since May-2022)

Role: BIM Modeller (Bridge & Tunnel):
- Preparing the Concrete and Reinforcing 3D parametric script basis bridge models and drawings Using Grasshopper (Rhino) and Tekla structure (live link).
- Finding the reinforcement clashes with all MEP equipment and including other rebars. Making the clash check report and de-clashing for delivery of the clash-free models.
- Rising Queries and RFA before starting the model if anything is unclear.
- Coordinating & managing projects with counterparts in other countries.
- Check the model quality & construction sequence.
- Attend the project meeting with the engineers to update the status and involve in the technical discussion.
- Standardized the project arrangement drawing & RC Shop drawing sheets.
- Taking a "Technical presentation" within the department to share the knowledge to maintain the standards.
- Attend the training and participate in the digital team to improve the automation tools.
- Creating required components and automation tools based on project requirements.
- Sharing knowledge with teams and other countries' colleagues.
- Learning new technics and software for career development.

Experience with Atkins   (Jan 2018 – April 2022)

Role: 3D RC Modeller (Nuclear Power Plant):
- As a Building Model Lead, brief the team on their roles and responsibilities for the package and responsible for review of the models, drawings, and quality assurance alongside program and resource management.
- Ensuring compliance with the standard Eurocodes and bespoke nuclear-classified requirements
- Outline the program taking account of the required resources. Discuss the program with Building Lead and the design team and consider the anticipated risks.
- Training new joiners, and mentoring existing team members to be efficient in modelling and drawing production.
- Modelling and drawing setup and strategy: creating/facilitating robust working environments for the team to model effectively, and at the optimum rate.
- Implementing the QA procedures relevant to work by promoting their significance and encouraging the team to implement them daily.
- To ensure that the team is employed in a safe working environment and that all the team members are aware of their own responsibilities with respect to occupational H&S and Construction, Design Management (CDM)
- Provide technical assistance to the modelling team for engineering and buildability issues.
- Receiving and responding to Field Change Requests (FCRs) and RFIs raised from the site.
- Enhancing the way of working by contributing ideas and support to the automation team to meet the quality, program.
- Developing and integrating bespoke automation tools to enhance the speed and quality of delivery.

Experience with CADS Software India Pvt Ltd.   (June 2015 – Jan 2018)

Role: CAD Designer:
- PREPARING THE GA (GENERAL ARRANGEMENT), RC DRAWING, AND BBS (BAR BENDING SCHEDULE) USING THE SOFTWARE CADSRC & REBAR CAD UP TO 9.11 VERSION IN AUTOCAD 2015
- GA & RC DRAWINGS ARE PREPARED BASED ON ARCHITECTURAL, STRUCTURAL, AND MEP DRAWINGS.
- PREPARING DRAWINGS TO ASSURE QUALITY WITH GOOD PRESENTATION.
- CHECKING OF REINFORCED 2D DRAWINGS THAT ARE PRODUCED BY JUNIORS.
- PREPARE RFI FOR THE MISSING INFORMATION AND INCORRECT DETAILS.
- COORDINATING WITH THE DESIGN TEAM, IF THERE IS ANY INCONSISTENCY BETWEEN THE OTHER SECTOR DRAWINGS.

- Checking RC drawings to ensure BS8666, EC2 and the client standards are followed. Ensure the delivery of error-free drawings of the highest quality.
- Arranging team meetings and explaining the client requirements, discussing the frequently occurring errors, and imparting them with lessons learned.
- Preparing formwork drawings with reference to the Structural, Architectural, and MEP drawings for the UAE clients.
- Keeping up to date with any issues, proposing solutions, and investigating new features in the software.
- Preparing time and cost estimates for the number of drawings, and resources, and committing delivery dates.

Declaration:

I do hereby confirm that the information given above is true to the best of my knowledge and belief.

MAYILVAGANAN.M