



Madhavan Chandran-Electrical/ELV Engineer

Nationality: Indian **Date of birth:** 30 Oct 1994

Phone number: (+91) 9994044130

Email address: madhavshrudhesh6@gmail.com

LinkedIn: www.linkedin.com/in/madhavanchandran

Home: 7/208C, Guruvayurappan Nagar, 1st Street, Poyampalayam, Tiruppur, Tamilnadu, 641602 (India)

ABOUT ME

- ❖ Electrical/ELV Engineer with over **6.5 years** of accomplished experience in Electrical Design, Installation, Testing, and Commissioning.
- ❖ Highly proficient in Fire Alarm System handling Installation, Testing, Commissioning, and Maintenance.
- ❖ Well-versed in QA/QC Documentation encompassing Work and Material Inspections, Material Submittal and Approval, Method Statements, Request for Information (RFI), and Site Instructions, as well as strategic planning such as Look Ahead Plans, Survey and Progress Reports, and Stock Management.
- ❖ Experience in a wide range of ELV systems such as Access Control, BMS, CCTV, Lighting Control, and Public Addressing (PAVE)
- ❖ Exemplary interpersonal and communication skills, fostering teamwork, motivation, and the cultivation of high-performing teams. Self-motivated, highly organized, and proficient in computers.

WORK EXPERIENCE

Project Engineer

Teemage Builders Private Limited, Tiruppur, Tamilnadu-India [18 Mar 2022 – Current]

Website: <https://www.teemageprecast.in/>

Projects Handling:

1. Construction of Residential Buildings-1, 2, Kalyanamandapam, Suite Block and Renovation of KPS Block for Tirumala Tirupati Devasthanams (TTD) valued at **185 Crores**
2. Construction of Airport Traffic Control (ATC) Tower cum Technical Block for Tirupati Airport under Central Public Works Department (CPWD) valued at **56 Crores**
3. Construction of Airport Traffic Control (ATC) Tower cum Technical Block for Vijayawada Airport under Central Public Works Department (CPWD) valued at **76 Crores**

Consultants: Gayatri and Namith Architects (GNA), Design Ventures, VEDA Lighting Design, Dhruva Associates

Roles and Responsibilities

- Interpreted the specification and obtained a variation of almost **2 Crore**. Coordinated with Engineer In-Charge right from the Data preparation till Approvals
- Increased the Productivity of the Electrical Design Department by **75%** using the Custom LSPs from various sources for AutoCAD as well as reducing **50%** of the time for the same
- Designed the Electrical/ELV Shop Drawings, not limited to the Floor Plan, Site Layouts, Equipment Layouts, and Schematic, and arrived at the load of the project Considering all MEPD System equipment
- Designed the Single Line Diagram (SLD) and got it approved by the client for the commencement of the work
- Verified and Approved all the Precast Elements (Beam, Column, Slab, Staircase, Wall) Drawing and approved the Elements from Electrical Side for its casting
- Provided various solutions for the Electrical issues in the Precast Elements according to the element design and the site condition
- Inspected the project sites frequently and ensured that the progress of the work is meeting the project schedule concerning the work quality without any reworks
- Coordinated with the site engineers/supervisors regularly to provide the respective manpower and material required for the uninterrupted execution of the project
- Attended all the client meetings to understand the requirements/modifications of the stakeholders for the project and provide them with successful negotiations

Electrical QA/QC & Fire Alarm Engineer

Electron Electromechanical, Doha-Qatar [12 Mar 2019 – 16 Jun 2021]

Website: <http://www.electron-mep.com/>

Consultants Dealt: Jensen Hughes (JH), James Cubitt & Partners (JCP), ASTAD, CEG International, Qatar Design Consortium (QDC)

Projects Handled:

1. Hamad Medical Corporation (HMC)-Renovation & Fire Life Safety (FLS) Upgradation Project, Alkhore-Electrical QA/QC & Fire Alarm Engineer-Valued at **15 Million QAR**
2. Qatar Armed Forces (QAF)- 2 Nos Vehicle Hanger Project, Shahaniyah-Fire Alarm Engineer-Valued at **10 Million QAR**
3. Doha Insurance Hotel Apartment Building Project (3B+G+M+6F+P+UR), Doha-Electrical & Fire Alarm Engineer-Valued at **8 Million QAR**
4. Electron Electromechanical-Estimation Engineer Estimated 7+ Projects valued around **30 Million QAR**

Roles and Responsibilities

- As a **Fire Alarm Engineer**, Lead the Fire Detection and Alarm System Installation, Testing, and Commissioning, including Battery calculations, Cause & Effect Matrices, and handed over to the client after approval from Qatar Civil Defense Department (QCDD) duly following NFPA standards
- Integrated the FDAS system with all the third-party interfaces like Access Control, BMS, CAMS, Firefighting valves, all Fire Suppression Systems, Fire Pumps, Generators, HVAC Units, LCS, Lifts, Motor Control Centers, PAVE, HVAC Dampers, Switchgears, etc.
- Through knowledge of the Fire Fighting System, including the Fire Suppression Systems (FM200, Novec, Pre-Action, Aerosol, Foam, HSSD/VESDA, and Kitchenhood)
- As an **Electrical QA/QC Engineer**, accountable for raising all the work inspections, material inspections, material approvals, method statements, material requests, RFI, Site instructions, look ahead plans, survey reports, daily/weekly progress reports, material stock register, etc
- Interpreted the Project specification & IFC Drawings, and determined the additional scope of work, raised RFI, Engineer's Site instruction, and claimed around **1.5 Million QAR** as a variation
- Ensured that the installation, inspection, and testing of all Electrical and ELV works implemented are as per the approved shop drawing and meet the project specifications, consultant/client requirements
- As an **Estimation Engineer**, Verified the drawings (Design Plan, IFT, IFC) received from the client with the specifications, Qatar Construction Standards (QCS), Kahramaa, Ministry of Interior (MOI), and QCDD Regulations for any deviations and clarified with the client to ensure that the requirements are met along with local standards
- Developed the Complete MEPD Database from the quotations, which reduced the project estimation time by **35%**
- As an **Electrical Engineer**, I have Tested and Commissioned Electrical Installations, Lighting fixtures, Distribution Boards, Cables, Earth Pit, etc
- Supervised the installation of other ELV systems like Access Control, Audio/Video Intercom, CCTV, Lighting Control, SMATV, and Structured cabling system
- Assisted the Project Electrical Engineer in preparing all the documentation required for the site inspection from the consultant

Assistant Electrical Engineer

Sri Jaya Prabha Exports, Tiruppur, Tamilnadu-India [May 2016 – Feb 2019]

Website: <http://www.jayaprabha.com/>

Roles and Responsibilities

- As an Assistant Electrical Engineer, supervised the electrical technicians for installation of lighting fixtures, wiring devices, etc.
- Monitor the Fire Alarm Control Panel (FACP) for any issues like open/short circuits and ground faults properly
- To ensure proper maintenance and operation of electrical and fire alarm devices
- Report every day and weekly activities to the senior engineer and management
- Verify that the Fire Life safety systems (FAS, Firefighting system, Fire Extinguisher, Emergency Lighting) are working properly
- Conduct the monthly maintenance inspection for all the electrical and fire alarm systems

EDUCATION AND TRAINING

Bachelor's in Electrical and Electronics Engineering

K.S Rangasamy College of Technology (Autonomous), Tiruchengode [2012 – 2016]

Final grade: CGPA 8.25

DIGITAL SKILLS

Professional Skills

Project Management / AutoCAD Designing / Data Interpretation / Technical Documentation / Value Engineering / Project Planning & Execution / Fire Alarm system (Siemens, Edwards, Honeywell-Gent) / Microsoft: Excel, Outlook, Powerpoint and Word

Interpersonal Skills

Intuitive learner / Leadership / Ability to teach and mentor / Adaptability / Excellent Communication and Organizing skills / Calm and Composed nature / Flexibility

HONOURS AND AWARDS

Workshop on Designing and Drafting using AutoCAD

National Institute of Technology (NIT) Puduchery [18 Jul 2023]

Awarded EXPERT by NITP for Exhibiting the Workshop on Designing and Drafting for a Project using AutoCAD on EDWAS-2023

LANGUAGE SKILLS

Mother tongue(s): **Malayalam** | **Tamil**

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

Hindi

LISTENING B2 SPOKEN PRODUCTION B2

SPOKEN INTERACTION B2

Arabic

LISTENING A2 SPOKEN PRODUCTION A2

SPOKEN INTERACTION A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

Tiruppur, Tamilnadu, 1 Sep 2023



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