

**SUNDAR RATHINAVEL**

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Salem, Tamilnadu, 636014, INDIA

CAREER OBJECTIVE

To pursue a challenging carrier in progressive environment where learning, innovation creativities are at the core of the company's vision. Seeking a carrier as a Mechanical Engineer, where I can use my skills and knowledge in mechanical drawing, MEP and machine design software.

EXPERIENCE

Company Name	Designation	Duration
AMNEAR Engineers Trivandrum, Kerala	Junior MEP Engineer	2020 April to DATE
NVH AUTO PARTS PVT LTD ,Chennai Tamilnadu	Graduate Engineer Trainee	2019 April to 2020 April

RESPONSIBILITY HANDLED.

- Reviewing Tender documents and preparing RFI for anomalies noticed.
- Quantity surveying of MEP services (HVAC, FIRE FIGHTING, PLUMBING) from tender drawings by manually and using PLANSWIFT software.
- Cost estimation for various projects like Hotels, Bank, Schools, Malls, Hospital, Flats etc.
- Cost comparison of various quotations and considering the material rates for Estimation.
- Value engineering to reduce the cost after checking the specification and drawings.
- BOQ preparation for Design projects and Tendering projects if the same is not received from the consultant.
- Design of HVAC, Firefighting, Electrical, Plumbing systems for incomplete Tender drawings.
- Drafting of MEP services by AutoCAD and Revit MEP.
- Specification making after discussion with the senior members.
- Tender documents creation and reconciliation for Design projects.

KNOWLEDGE AND SKILLS**MEP Design & Estimation**

- Heat Load Calculation by manually and using HAP software.
- Duct design by manually and using duct design software.
- Static pressure calculation for Ducts.
- Chilled water piping design as per ASHRAE standard.
- Energy analysis manually and using HAP.
- Equipment selection based on energy analysis and architectural coordination.
- Ventilation design as per ASHRAE 62.1, 62.2 standards.
- Building exhaust, Kitchen ventilation, Kitchen hood, smoke exhaust, Stairwell pressurization design as per ASHRAE 154, NFPA 96, NFPA 92A, NFPA 92B standards.
- Domestic and Industrial water supply design as per BS 6700 standard.
- Domestic and Industrial Drainage design as per BS 8301 standard.
- Firefighting design as per NFPA standards.
- Hydraulic calculations and pump selection based on demand.

- Domestic pump design based on peak water demand.
- Tender drawing Preparation.
- Mechanical design and drawing preparation for incomplete external tender drawings.
- Quantity take off and scheduling for External projects and In-house projects.
- Costing and cost comparison of various quotations from suppliers.

CERTIFICATION

- **MEP** Designing and drafting with Estimation from **STED** Council.
- Undergone a course on “**NX-CAD**” conducted by C CUBE Technologies, Salem,2019.
- Attended a course on “**AutoCAD**” organized by CADD Technologies School of Design Private Limited, Salem,2017.

SOFTWARE PROFICIENCY

--HAP, -- McQuay Duct sizer, --McQuay Pipe sizer, --Plan swift, --AutoCAD (approved certificate), -- MS Office (Word, Excel, PowerPoint), -- Autodesk Revit MEP, --RELUX—NX CAD.

ACADEMIC PROJECTS

- Design and fabrication of Trestle and Hydraulic jack.
- Design and fabrication of Solar Water pumping system.

QUALIFICATION

Course of Study	Specification	Institution/Board	Percentage/CGPA	Years of Passing
BE	Mechanical Engineering	AVS Engineering College, Salem.	7.32/10	2019
12 th Standard	State Board	Bharathi Vidyalaya Higher Secondary School, Salem.	71%	2015
10 th Standard	State Board	Govt, High School, Salem.	89%	2013

PERSONAL INFORMATION

Date of Birth : 19th September 1997

Address : 426, Mariyappan Nagar K.N.colony ,Salem- 636014,Tamilnadu, INDIA .

Languages Known : English, Tamil.

REFERENCE

Available upon request.

DECLARATION

I hereby declare that the above mentioned details are true to best of my knowledge.

SUNDAR RATHINAVEL