

# MAHESH.S.BANKAR

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## OBJECTIVE

Seeking a fulltime position in a company that offers challenging job opportunity in MEP Engineering, where I can improve my abilities and which provides an environment to share my skill with others so that I will be a part of success in that organization.

## PROFESSIONAL PROFILE

- ✓ **A focused experienced professional with 2+ years of experience as Design and Estimation Engineer for MEP building construction projects.**
- ✓ **Knowledge in "HVAC, Electrical, Fire Fighting, Plumbing Design and Drafting, Heat load calculation, Duct design, chilled water piping design, Equipment selection, Energy analysis, ASHRAE standards, Plumbing design, BS standards, Firefighting design, NFPA standards, Hydraulic calculation, Tender drawing preparation, IFC drawing preparation, Working drawing preparation, Estimation, BOQ preparation, Project quality plan, Contract norms, Scope of work, Variation preparation, Procurement methodology, Project planning, Equipment Commissioning"**
- ✓ **Excellent relationship management with the ability to network with project members, consultants, contractors, suppliers, statutory agencies with consummate ease.**
- ✓ **Holds the distinction of MEP Design & Estimation projects of diversified nature across the career span. Multitasking professional, adept at working in high pressure environments with strict deadlines and multiple deliverables.**

## PROFICIENCY MATRIX

- ❖ 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 by manually and using HAP.
- ❖ Equipment selection based on energy analysis and architectural coordination.
- ❖ Building exhaust, Kitchen ventilation ,Kitchen hood ,smoke exhaust ,Stairwell pressurization design as per **ASHRAE 154, NFPA 96, NFPA 92A, NFPA 92B** standards.
- ❖ *MEP Layout detailing and drafting using Revit with all kind of LOD 100 to 500.*
- ❖ *MEP co-ordination and clash detection using Navisworks.*
- ❖ Design of Electrical Services as per the latest local as well as international codes and standards.
- ❖ Estimate utilities requirements.
- ❖ Domestic and Industrial water supply design as per **BS 6700** standard.
- ❖ Domestic and Industrial Drainage design as per **BS 8301** standard.
- ❖ Knowledge of Sewage treatment Plant.
- ❖ Firefighting design as per **NFPA** standards.
- ❖ Hydraulic calculations and pump selection based on demand.
- ❖ Domestic and industrial booster pump with expansion vessel system design based on peak water demand.
- ❖ Tender drawing Preparation.
- ❖ MEP design and drawing preparation for incomplete external tender drawings.
- ❖ Quantity takeoff and scheduling for External projects and In-house projects.

- ❖ Snag list making
- ❖ Costing, value engineering and Cost comparison of various quotations from suppliers.
- ❖ Bill of Quantity (**BOQ**) preparation for External projects and In-house projects.
- ❖ Client meetings, statutory approvals.

## EXPERIENCE CHRONOLOGY

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### ❖ “TRAINEE ENGINEER-PLANNING-HVAC DIVISION” AT PRIDE AIR SYSTEMS PVT LTD , PUNE

**AUGUST 2015 - JANUARY 2016**

#### AS PLANNING ENGINEER

##### Responsibilities Handled

- Scheduling of work to the subordinates, Cross checking of work performed by the subordinates.
- Plan in advance the activities to be carried out; making all resources available, cross-check availability of plant and machinery and ensure that the same is engaged for at least the daily minimum running time.
- *Prepared BOQs for New and Refurbishment Projects including all types of Buildings like Hotels, Shopping Malls, Commercial Complexes, Banks, Auditoriums, etc.*
- *Quantity surveying from tender drawings by manually and using PLAN SWIFT software.*
- *Participate regularly in the project technical co-ordination meetings.*
- *Provide reports/information when requested by Project Manager.*

### ❖ ‘DESIGN AND ESTIMATION ENGINEER’ AT AMNEAR ENGINEERS ,THIRUVANANTHAPURAM

**JULY 2018 - TILL DATE**

#### AS MEP DESIGN & ESTIMATION ENGINEER

##### Responsibilities Handled

- *Reviewing tender documents and preparing RFI for anomalies noticed.*
- *Tender queries making from tender documents, Client meetings, Costing and cost comparison of various quotations received against enquiry.*
- *MEP Layout detailing and drafting as per customer's requirements, for buildings using Revit with all kind of LOD 100 to 500.*
- *Co-ordination and clash detection using Revit.*
- *Prepared BOQs for New and Refurbishment Projects including all types of Buildings like Hospitals, Hotels, Shopping Malls, Commercial and Residential Complexes, Banks, Clubs, Auditoriums, etc..*
- *Quantity surveying of MEP services (HVAC, ELECTRICAL, FIRE FIGHTING, PLUMBING) from tender drawings by manually and using PLAN SWIFT software.*
- *Electrical services that includes: Load Calculation, Design of power system, panel & distribution boards, Cable sizing as per voltage drop calculations, Hume pipe & cable tray sizing, Life safety and determining Earth protection system etc.*
- *Provide information to architect about space requirement, provide information to structural engineer about equipment locations and reactions.*
- *Coordinate with other trades/disciplines for the project activities. Check architectural /interior design/structural/electrical drawings to ensure requirements and provision of mechanical equipment's are kept.*
- *Establish and follow procedural standards for drafting and designing under consultation with Project Manager.*

- Participate regularly in the project technical co-ordination meetings.
- Cost estimation for various projects like Shopping Malls, Hotels, Banks, Commercial and Residential Complexes, Schools, Multi Story buildings etc.
- Cost comparison of various quotations and considering the material rates for estimation.
- Value engineering to reduce the cost after checking the specifications and drawings.
- Design of Electrical, HVAC, Fire Fighting, Plumbing systems for incomplete tender drawings.
- Drafting of MEP services by AutoCAD.

### **Correspondence**

- Regular correspondence with staff, other departments Consultant, Clients and statutory agencies.
- Provide reports/information when requested by Project Manager.

### **SOFTWARE KNOWLEDGE AND CERTIFICATIONS**

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- ❖ **Certificate in MEP Designing and Drafting with Estimation from STED Council**
- ❖ **REVIT MEP- Detailing, Drafting, Co-ordination and Clash detection**
- ❖ **Navisworks- Co-ordination and Clash detection**
- ❖ **AutoCAD- Drafting**
- ❖ **HAP- Heat load calculation**
- ❖ **McQuay Duct sizer.**
- ❖ **ASHRAE duct fitting calculator- ESP Calculation**
- ❖ **Plan swift- Quantity Surveying**
- ❖ **RELUX- Lux level Calculation**
- ❖ **Excel- Estimation**
- ❖ **Air Master- Diffuser, Grille selection**

### **ACADEMIC CREDENTIALS**

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<b>Examination</b>	<b>Board/University</b>	<b>Year of Passing</b>	<b>%</b>
<b>B.E. (Mechanical Engineering)</b>	Pune University	2015	<b>58.74 %</b>
<b>12<sup>th</sup></b>	Pune Division	2009	<b>54.17 %</b>
<b>10<sup>th</sup></b>	Pune Division	2007	<b>76.76%</b>

### **PERSONAL DOSSIER**

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**Date of Birth** : 4<sup>th</sup> January 1991  
**Permanent Address** : A/P- Malinagar, Akhuj, Tal-Malshiras, Dist- Solapur, Pin- 413108  
**State** : Maharashtra  
**Languages Known** : English, Hindi, Marathi.  
**Passport Number** : U2107040  
**Nationality** : Indian.  
**Marital Status** : Unmarried

### **DECLARATION**

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

MAHESH S. BANKAR