



S. Gowthaman

ELECTRICAL & ELECTRONICS ENGINEER | MAINTENANCE | SERVICING | INSTALLATION & COMMISSIONING

An ambitious and goal-oriented professional targeting assignments with an organization of repute preferably in surface pvd coating sector & industrial automation sector & automobiles sector & service industries.

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Profile Summary

- A **Maintenance Engineer** with Diploma in Electrical & Electronics Engineering and professional experience of over **6 years**; currently associated with Oerlikon Balzers Coating India Limited as Junior Maintenance Engineer
- Skilled in installation & commissioning of PVD coating machines, water circulation plant, ultrasonic cleaning machines, decoating machines and tool wear resistance coatings
- Expertise in electrical & mechanical maintenance of high vacuum coating plants of Oerlikon Balzers & Leybold
- Have in-depth troubleshooting knowledge of vacuum, electrical & pneumatic control circuits, PLC control circuits & power controllers
- Hands-on experience in taking initiatives for achieving reduction in costs by minimizing equipment breakdown and improving productivity by technology management
- Proficiency in grasping new technical concepts quickly & utilize the same in a productive manner
- Possess strong analytical & troubleshooting skills; have a problem solving approach towards work

Skill Set

Electrical & Mechanical Maintenance
Installation & Commissioning
Troubleshooting
Periodic & Preventive Maintenance
Reporting & Documentation
Root Cause Analysis
Process Improvement
Breakdown Maintenance
Project Execution

Skill Set



Academic Details

- **Diploma in Electrical & Electronics Engineering** from P.T. Lee CNPT College, Chennai in 2010 with 77%
- **10th** from St. Joseph's Higher Secondary School, Chennai (State Board) in 2007 with 82.6%
- **Other Course:**
- Training in **PLC Controller Programming** from Technocraft Automation Pvt. Ltd., Chennai

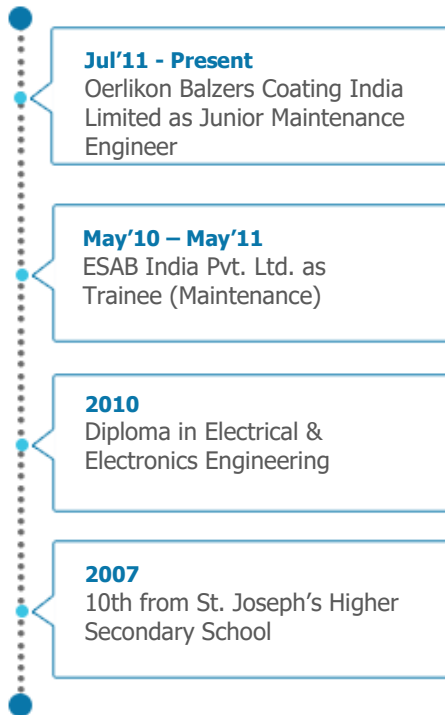
Knowledge Purview

- Servicing of:
 - Mechanical Vane Pump
 - Diffusion Vacuum Pump
 - Automatic Cleaning Line
 - Ultrasonic Cleaning Machines
- Tool wear resistance coatings
- Trouble shooting in PLC control systems & HMI (Siemens) vacuum
- Installation & commissioning of:
 - PVD Coating Machines
 - Water Circulation Plant
 - Ultrasonic Cleaning Machines
 - Decoating Machines

Technical Skills

- **PLC Programming:**
Siemens, Ge-Fanuc, ABB, AB, Mitsubishi, Omran, Measang & HMI
- **SCADA Design & Control Operations:**
Intouch-Wonderware & Wincc Flexible(Siemens)
- **Distributed Control System (Design & Control Operations):**
ABB- 800M
Honeywell (Honeywell Experion, Honeywell Pac)

Career Timeline



Organizational Experience

Oerlikon Balzers Coating India Ltd., Chennai **Jul'11 - Present**
Junior Maintenance Engineer

Key Result Areas:

- Maintaining High Vacuum Coating Machines, High Vacuum Heating Furnaces, Water Circulation Plant, Chilling Unit & Ultrasonic Cleaning Lines
- Effectuating predictive & preventive maintenance schedules for various equipment to increase machine uptime & equipment reliability
- Identifying areas of obstruction/breakdowns in routine checkup and taking steps to rectify the equipment through application of troubleshooting tools
- Maintaining the spare items stock for the line equipment and updating it periodically; ensuring timely billing of Maintenance Contractors in line with the terms of payment and work performed at site
- Performing preventive, periodic & breakdown maintenance for all machines and maintaining preventive breakdown checklists & breakdown histories for future references
- Identifying & rectifying equipment abnormalities, maintaining utility equipment such as DG Sets, Compressors, Water Treatment Plant, Cooling Towers, ETP, UPS & LT panels
- Retaining leak rates for coaters within the stipulated limit by using various leak detectors; operating & maintaining Reverse Osmosis & ETP Plant
- Preparing list of monthly consumable requirements & spares required
- Recognizing areas of breakdowns & taking steps to rectify through application of troubleshooting tools like root cause analysis

Highlights: (Junior Maintenance Engineer)

- Improved preventive maintenance checklist by performing 5S activities
- Successfully reduced energy cost by studying various machines to monitor power consumption through conversion of all lighting units into LED bulbs for energy consumption
- Troubleshooted Ultrasonic Cleaning Machine & undertook preventive measures by improving cleaning effectiveness & utilization of the machine
- Reduced downtime by 3% (as per balzers standards)
- Assisted in machine modification of fully automated microblasting machine and machine upgradation of decoting machine & USI Cleaning Machine
- Worked on a number of projects such as solar power generation (capacity of 80kva) set-up in plant with support of Cotmac Electronics Pvt. Ltd.
- Executed projects for installing EOT Cranes (for handling big dies) & successfully got approval from the management

Highlights: (Production Shift Leader)

- Reporting to production Manager & leading a team of 3 members
- Acknowledged for ensuring safe work environment which were achieved by risk assessment management and by implementing safe work practices
- Recognized as a dedicated team leader with well-developed communication skills
- Appreciated for participating in production planning, monitoring resource management and motivating team for successfully performing analysis and assisting in cost reduction, safety, ergonomics, productivity, quality & new fixture development
- Have regularly achieved production target, monitored hourly reports & ensured delivery of components to FIFO

Previous Experience

ESAB India Pvt. Ltd., Chennai
Trainee (Maintenance)

(May'10 – May'11)

Key Result Areas:

- Implemented maintenance schedules and performed periodic checks to ensure performance & maintaining requisite documents for the same
- Planned & effectuated predictive & preventive maintenance schedules for various equipment to increase machine uptime and equipment reliability
- Operated & maintained Welding Electrode Manufacturing Machine and Electrical Ovens
- Assisted in periodic maintenance of Welding Electrode Manufacturing Machine & Packing Machine

- Provided preventive maintenance & operation assistance for utility equipment like air compressor & diesel generator
- Prepared Maintenance Consumables Stock List and records of Machine History, Downtime & Preventive Maintenance Schedule Plans, Utility Equipment & Energy Consumption
- Monitored Diesel & LPG Gas stocks

Highlights:

- Successfully executed project for building of diesel storage tank for Generators (capacity -2000ltrs)

 **IT Skills**

Operating Systems	Windows
Software Packages	MS Office
Designing Software	AutoCAD- 2007, 2010 & Electrical CADD

 **Extracurricular Activities**

- Participated in various state level technical symposium competitions college fests

 **Personal Details**

Date of Birth:	29 th January 1991
Languages Known:	English, Tamil & Hindi
Address :	No. 6/71, Anna Salai, Erukanchery, Chennai- 600118, Tamil Nadu