

# ANTONYRAJ NARAYANAN

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## Profile Summary

Strategic Leader, Create Value to the Organization with Consistent Performance, Competent to drive the functional department towards operational goals to ensure Business development growth.

**Engineering Graduate (BE-Electrical) and Business Management Post Graduate (MBA)** from premium institutes with extensive experience in Manufacturing engineering, Industrial Process machine maintenance, Total Utilities Operation and Maintenance, Plant Infrastructure Projects, Process control Instrumentation, Sourcing and Procurement, Plant Operation Management, Quality systems, Environment Health and Safety, Facility Management and Business excellence tools.

Hands on experience in Plant expansion projects, Electrical Distribution Design, Testing of Power Transformers, Panels, Circuit Breakers, HT Cables and Relays, Fault Level calculation, Capital equipment selection, Contract finalization and Commissioning of Large Scale Industrial Utility System. Executed high value Capex Greenfield and Brownfield projects.

Functional Expert to review Electrical, Mechanical, Civil, Hydraulic, Pneumatic drawings and technical specifications. Having basic understanding of HR, Financial, Supply chain, Purchase management concepts and terms. Ability to train other members to lead projects.

Knowledge in Labour, Contract, Health, Safety, Environmental, Electricity, Boiler, Fire, and Explosive rules governing business and liaison procedures with Government bodies. Dedicated Professional with excellent communication and negotiation skills. Flexible to collaboratively work with cross functional teams and highly adaptable to change.

## Key Skills Area

- HT Installation 110KV,33KV,11KV
- HVAC, Air Compressors
- ETP,STP,RO,DM, Softener Plants
- Boiler operation and control
- Fire Fighting systems
- SAP based plant operation
- Industrial Automation
- Energy Conservation Technique
- ISO 9001,14001,TS16949,TPM
- Statutory compliance

## Professional Experience

**Dec 2015 to Present Senior Manager-Facilities & Maintenance**  
**Alectrona Energy Pvt Ltd, Zynergy Group, Chennai**  
(EPC Solar Power Project Company, Sriperumbudur Factory)

Heading Engineering functions in manufacturing Plant and ensuring smooth operation by implementation of Operation objectives, SOPs, PM Plans, KPIs, Safety standards, Energy conservation projects, Spares development and Budget control plan

- Commissioned and Maintaining 50 MW Fully automated PV Module lines with 5BB Tabber stringers, Auto Layup, Conveyor Stations, Sun Simulators, Laminators, Framing machines, Laser Cut machines, Testing machines and 250T Plastic Injection Molding line
- Installed EMS line comparing of Solder paste Printer, Pick & Place, Reflow Oven, Wave Soldering, Various conveyors, Assembly Stations, Final Testing machines for Solar Invertor manufacturing

**Feb 2013 to Dec 2015 Assistant Manager-Facilities**

**Flextronics Technologies India Pvt Ltd, Chennai**

(MNC Electronics Manufacturing, Sriperumbudur Plant)

Managed total Utility system consisting of 110KV Switchyard with SF6 Breakers, 25MVA Transformers, 11 KV Substations, 360TR Compression chillers, AHUs, Machine Exhaust Systems, Fire hydrant and Sprinkler systems, Water treatment Plants, Air compressors, DG Sets, UPS, ESD system, Lighting installations and Material handling machines

- Operated Utility Infrastructure with 5S Audits, Kaizens, Process Audits, Expenditure and Capex Budgets, Operation Matrices, Risk assessment audits and MRM
- Handled total Facility setup of 2 lac sqft brownfield Project with 7 SMT lines for Philips LED Lighting and Motorola/Lenova Mobile manufacturing. Executed 150K/day mobile charger line project with 5 SMT lines for Motorola and Apple customers
- Successfully faced Philips, Huawei, Cisco, Dell, Lenova Motorola assessment audits and got the orders. Pivotal role in QMS and EMS recertification audits. Organised the team for Rule 46 and Rule 63 CEIG Inspections

**Apr 2007 to Feb 2013 Assistant Manager-Plant Engineering**

**Wheels India Ltd, Chennai**

(Large scale Auto ancillary- Padi and Sriperumbudur Plants)

Operated 33 KV Electrical Installation with maximum demand of 8000 KVA, Connected Load of 45000 KVA, 5 numbers of 11 KV Substations, DG sets with HT back feeding, Vapour absorption chillers, Air compressors and Water treatment plants. Maintained Wheel manufacturing Butt Welding machines, MIG Welding machines, Drilling machines, Hydraulic presses, EOT Cranes, CNC machines, Shot Blasting's, Paint plant machines, and Thermopacs.

- Developed Utility system for Green field project of Earth mover wheel manufacturing plant, Sundaram Hydraulics plant and Air suspension plant in sriperumbudur.
- Executed Electrification of Earth mover Rim line 3 and Rim line 4 Projects in Padi Plant. Played a key role in HV and MV Installation additions, Maximum Demand additions, TNEB and PCB inspections, AMC agreements, Energy Audits, Legal Audits and Quality Circles
- Joined as Senior Engineer-S9, **Promoted** to Asst Manager-S10 and **Promoted** to Asst Manager-S11

**Aug 2000 to Apr 2007 Engineering Team Leader**

**Perfetti Vanmelle India Pvt Ltd, Chennai**

(MNC sugar confectionary, Chennai Factory)

Joined in first batch of Chennai Plant startup, Engaged in commissioning of 11 KV HT/LT Power distribution, 360KVA and 1500 KVA DG sets with Auto synchronization, UPS, 4Ton and 2Ton FO fired Steam boilers, 245TR Vapour absorption chillers, 100TR Vapour compression chillers, Heat Pumps, Heat recovery units, Scrubbers, Cooling towers, AHUs, Air Compressors, Dehumidifiers, ETP-STP-RO-DM Plants and Firefighting systems.

Maintained Sugar confectionary Line PLC controlled process machines Gravomats, Solvomats, Micro film cookers, Batch cookers, AWMs, Nitrogen cooling Tunnels, Depositors, Pulling machines, Batch rollers, Rope Sizers, Cut and Wrap machines, Roll wrappers, Coating machines, Various types of Packaging machines, Counting machines, Storage Tanks, Vacuum Pumps and Heating systems

- Key role in commissioning of Mentos, Fruittella ,Marbles Alpenliebe, Lollipop and Meller confectionary lines
- Joined as Engineering Technician, **Promoted** to Engineering Technician-L1 and **Promoted** to Engineering Technician-L2

#### **Apr 1996 to Aug 2000 Electrical Supervisor**

**JP Boards Pvt Ltd, Thoothukudi, Tamilnadu**

(Pulp & Paper Plant, Kaliyavoor Factory)

Maintained various Pulp and Paper process machines comprising of Pulpers, Screeners, Agitators, Refiners, Forming Molds, Power Presses, Pre Driers, Main Glazers, Post Driers, Calendaring machines, Winding machines and Packing machines

Operated 11 KV Electrical Power Systems, AC and DC Drives, Boilers, Steam distribution, Compressed Air Distribution, Vacuum Pumps, Chemical treatment Plants, Storage tanks, Process Pumps and Water treatment plants

#### **Feb 1995 to Mar 1996 Electrical Team member**

**NEPC Micon Ltd, Tirunelveli, Tamilnadu**

(Renewable Energy company, Devarkulam TNPL Windfarm)

Engaged in Operation and Maintenance of 250 KW Wind Turbine Generators, Power Control systems and Power Transformers

### **Education**

**Mar 2016 to Feb 2018**

**MBA-General Management**, First Class 66%

**Faculty of Management Studies, MIT Campus** Anna University

**Jan 2005 to Nov 2008**

**BE-Electrical & Electronics Engineering**, First Class 64%

**College of Engineering, CEG Campus**, Anna University, Chennai

**Jun 1991 to Apr 1994**

**Diploma-Electrical & Electronics Engineering**, First Class 84%

**Sankar Polytechnic College**, Sankar Nagar, Tirunelveli

### **Certifications and Training**

- Electrical HT License C License from Government of Tamil Nadu at JP Boards-Nov 1998
- First class Boiler Operation License from Government of Tamil Nadu at PVMI-Nov 2002
- Steam Distribution System maintenance from Forbes Marshall at PVMI-June 2006
- Internal Quality Auditor ISO 14001 from Padhmam Consultancy at Wheels India-Feb 2011
- Safety FMEA from Enhance Academy India at Wheels India-Nov 2011
- Internal Quality Auditor ISO/TS 16949 from Maxwell Training at Wheels India-Jan 2012
- Advance training in Energy Conservation from CII at Flex-May 2014
- Project Management Professional training (PMP) from IIPM- Nov 2015
- Lead Auditor Training ISO 9001:2015 from Bureau Veritas-Dec 2015