

HARIHARAN

MECHANICAL ENGINEER

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CAREER OBJECTIVE

Energetic mechanical engineer with 8 years working history in Facilities, Service/Maintenance, Manpower planning, Production planning, Engineering design, Proficient in Solidedge ST8, and an interdisciplinary team player.

EDUCATION

- April 2014 - MECHANICAL ENGINEERING (B.E) - Anna University, Chennai, India

PROFESSIONAL EXPERIENCE

SYSTEMS ON SILICON MANUFACTURING COMPANY PTE LTD, SINGAPORE –

(Feb 2022 – Present)

MECHANICAL ENGINEER

- To provide facilities support for Local scrubber system pertaining to wafer fabrication to ensure continuous supply of related facilities at required performance level & specifications
- Periodical review and improve preventive & predictive maintenance program for Local scrubber system to ensure that the systems function as intended at all times
- Follow up closely on repair & troubleshooting of Local scrubber systems to restore systems to their operating conditions in shortest possible time to maintain system redundancy. Carry out root cause analysis and implement action plans to prevent recurrence
- Formulated effective reporting & tracking systems for monitoring of Local scrubber system performance
- Handling project on conversion of heater type scrubbers into Plasma scrubber in order to abate carbon gases from Etching process
- Working on CMMS improvement for Local scrubber maintenance
- Working closely with GHG manager on GHG emission monitoring & submission to NEA
- Review and prepare specifications for vendor service contract
- Formulate, implement, review and improve operating procedures so as to ensure optimum operation of systems
- Provide guidance & training for the vendors in order to ensure adequate working knowledge
- Ensure workplace safety & sharing safety topics to maintain zero incidents
- Ensure plant histories, drawings, data and other appropriate documentations are being generated & properly filed for future reference and review
- Evaluate & recommend appropriate spares, consumables and other resources necessary for the day-to-day operation of Local scrubber system

ECO SPECIAL WASTE MANAGEMENT PTE LTD, SINGAPORE - (Nov 2019 – Feb 2022)

SENIOR MECHANICAL ENGINEER

- Achievement - Improved efficiency & reduced manpower time by achieving paperless PM checklist through CMMS software eMaint System. Cost reduction project
- Prepare yearly Preventive Maintenance plan for the plant equipment like Centrifugal Pumps, Belt conveyors, Sand elevators, Screw conveyors, High speed blowers, Aircons, Air compressors, Cooling tower system, Rotary valves, etc
- Follow up on rectification works based on Preventive Maintenance findings
- Manage unplanned Corrective Maintenance activities including quick planning & scheduling and work closely with Plant Engineers, Maintenance Technicians and Operations
- Proper planning, execution, and testing & commissioning of Annual Shut Down jobs
- Prepare technical reports and proposals (Breakdown analysis, Root cause analysis) collection of data for cost improvement
- Jobscope preparation to Contractors for repair works
- Purchase request preparation for rectification & replacement works

- Supervise inhouse team of 8 technicians and job allocation as per weekly plan & priority jobs
- Manage human resource functions such as absence planning, training, and performance appraisals for the technicians
- Lead & Guide technicians for repair works
- Ensure workplace safety by conducting toolbox meeting every day & sharing safety topic to maintain zero incidents
- Stick to KPI plan
- Organize & conduct Weekly & Monthly meeting presentation to Directors
- Provide training & prepare SWP to ensure safe and appropriate maintenance of the plant and equipment
- Risk Assessment Team Leader (Bizsafe Level 2)

ACMV PTE LTD, SINGAPORE - (Oct 2015 – Oct 2019)

MECHANICAL ENGINEER

- Maintenance Engineer for 2 year project at Mount Elizabeth Novena Hospital facilities for ACMV systems
- Supervise workers on service & maintenance of ACMV Systems such as AHU, FCU, Auto Tube Brush System (ATB) & Chiller Annual Shut Down and ensure all works are carried out according to prescribed checklist & schedule
- Supervision on installation & overhaul of ACMV Systems in construction sites
- Schedule all maintenance activities for ACMV Systems & keep track of works done
- Prepare monthly, quarterly service & incident reports for ACMV systems
- Provide feasible solution & coordinate with customers on ACMV functional requirements and ensure objectives are achieved
- Material purchase & supplier follow up to meet on time delivery for ongoing projects
- Risk Assessment Team Leader (Bizsafe Level 2)
- Production Planning & generate part drawings and data sheets for production
- Assist production team to handle tasks easier by implementing proven ideas
- Documentation works on new Tender Projects
- Attended audit for Safety Bizsafe Level 3, ISO 9001:2015 & ISO 14001:2015

MICROCNC TECHNOLOGIS PVT LTD, INDIA - (Sep 2014 – Oct 2015)

PRODUCTION PLANNING ENGINEER

- Planning in achieving on time production as per schedule to meet customer requirements
- Customer handling & Supplier follow up to expedite production
- Engineering Design – AutoCAD
- Vertical & Horizontal Milling Machine Operations

SKILLS / CERTIFICATES

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|--|---------------------------|
| • Fluke eMaint System (CMMS) | • Solidedge ST8 & AutoCAD |
| • Bizsafe Level 2 – Risk Assessment Leader | • MS Office |
| • Managing Work at Height | • Driving License Class 3 |

PERSONAL ABILITY

- Quick learner & Profound person
- Flexible & Adaptive
- Interdisciplinary team player

PERSONAL DETAILS

- | | |
|-----------------|----------------------------------|
| • Full Name | : Velayutham Sivakumar Hariharan |
| • Date of birth | : 14/08/1993 |

DECLARATION

I hereby assure you that the information furnished above is true to the best of my knowledge.

SIGNATURE

V S HARIHARAN