

# JERIN K [REDACTED]

## Mechanical Engineer

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[REDACTED] 90459, Nürnberg, Germany



## SUMMARY

Highly skilled mechanical engineer with comprehensive experience across five companies, specializing in industrial and structural engineering, piping, plumbing, RO plants, STP systems, pump rooms, and water tank erection projects. Proven track record as a project engineer in resort infrastructure and industrial maintenance. Adept at solving complex engineering challenges, leading cross-functional teams, and delivering projects on time. Strong leadership, team management, and problem-solving skills ensure efficiency and excellence in every task.

## EXPERIENCE

### Industrial Mechanical Engineer

#### Malaya Rub Tech Industries

05/2023 - 04/2024 Kerala, India

- Implemented and managed **preventive maintenance** schedules for crumb manufacturing equipment, reducing downtime and extending machine lifespan
- Expert in diagnosing and resolving mechanical issues in **crumb production machines**, including extruders, grinders, and shredders
- Maintained and repaired conveyor belts, chains, rollers, and motors used for transporting materials within the factory
- Conducted major overhauls on **critical machines** like shredders and grinders, including disassembly, inspection, and part replacement
- Managed **lubrication schedules and monitored** wear-and-tear of key components such as bearings, seals, and gears to **prevent unexpected failures**
- Skilled in maintaining **hydraulic presses and pneumatic systems** used in crumb production for material processing and movement
- Serviced electric **motors, gearboxes, and drive systems** (e.g. variable frequency drives) to ensure smooth operation of machinery
- Proficient in basic **welding and fabrication** for repairs or modifications of machine parts, such as conveyor supports or frame reinforcements
- Ensured all **machinery safety systems**, such as emergency stops, guards, and sensors, are functioning properly and adhere to safety standards
- Managed inventory of critical **spare parts**, ensuring availability of components such as blades, belts, bearings, and filters to minimize downtime
- Maintained detailed **logs and reports of machinery maintenance** activities, including work orders, parts replacement, and performance checks
- Worked closely with production teams and machine operators to ensure machines run smoothly and address any mechanical issues promptly

## EDUCATION

### B. E in Mechanical Engineering

#### Anna University

06/2010 - 05/2016 Tirunelveli, India

## TRAINING / COURSES

### QA and QC Welding Inspection

STED COUNCIL

### Piping and Pipeline Engineer

STED COUNCIL

## PROJECT

### OBLU Select Resort (Maldives)

- <https://www.coloursofoblu.com/oblu-select-sangeli>
- Conducted full system **commissioning** for residential and commercial **swimming pools**, including pump performance verification, water treatment systems, and filtration testing
- Managed pre-commissioning checks, system fill-up, equipment setup, and final handover
- Ensured compliance with safety standards and optimized system efficiency
- Supervised the installation, testing, and commissioning of **RO plants** for both domestic and industrial applications
- Performed pressure testing, membrane setup, and water quality calibration, ensuring proper water output and compliance with quality parameters
- Coordinated with **cross-functional teams** to integrate RO systems into existing water treatment processes
- Led the mechanical installation and commissioning of **Sewage Treatment Plants (STP)**, including MBBR and SBR systems
- Overlooked piping installation, pump configuration, and electrical connections
- Ensured system functionality by conducting initial testing, process optimization, and effluent quality checks

## EXPERIENCE

### Mechanical maintenance engineer

#### Oblu Select Sangeli Resort

01/2018 - 04/2019 Maldives

- Managed the **maintenance and repair of plumbing systems**, including water supply, drainage, sewage treatment plants (STP), and reverse osmosis (RO) systems for water purification
- Performed preventive maintenance on plumbing fixtures, pipes, and drainage systems, ensuring proper water flow and preventing leaks
- Monitored and **maintained building automation systems (BMS)**, controlling HVAC, lighting, and energy systems to ensure efficiency and guest comfort
- Conducted routine inspections and maintenance of **fire safety systems**, including sprinklers, smoke detectors, fire alarms, and extinguishers
- Maintained detailed **maintenance logs, reports, and service records** for MEP systems, ensuring compliance with safety and operational standards

### MEP Project Engineer

#### NELP

06/2017 - 07/2018 Maldives

- Coordinated with architects, civil engineers, and contractors to integrate MEP systems into the overall resort design, ensuring functionality and aesthetics
- Managed the installation of lighting systems, emergency power supplies, and backup generators to ensure uninterrupted operations
- Managed the installation of sanitary fixtures, hot water systems, and grey water recycling systems across the resort, ensuring sustainability and resource efficiency
- Managed the commissioning process for all MEP systems, ensuring they operated according to design specifications and met regulatory standards

### Site Engineer

#### Devi Engineering

07/2016 - 10/2016 Kerala, India

- Assisted with the installation of mechanical systems, including pumps, motors, air handling units, and ductwork, under the guidance of senior engineers
- Participated in project meetings to discuss progress, address challenges, and implement solutions to stay on schedule and within budget
- Identified and resolved technical issues during the installation phase, preventing potential delays or rework

### Site Engineer

#### JK Engineering

05/2014 - 10/2015 Kerala, India

- Managed on-site mechanical works, including layout planning, material handling, and installation, ensuring alignment with project timelines and specifications
- Attended coordination meetings to discuss installation progress, address design changes, and mitigate any potential challenges related to the mechanical or structural aspects of the project
- Ensured that all site personnel followed safety protocols during structural and mechanical installations, minimizing the risk of accidents or equipment failure

## KEY ACHIEVEMENTS

### Completed Resort Infrastructure Projects Ahead of Schedule

Led the MEP installation for a large resort, completing the project 15% ahead of schedule, ensuring minimal disruption to ongoing operations

### Improved Water System Efficiency by 20%

Optimized RO plant operations, STP, and water supply systems, reducing water wastage and improving overall efficiency by 20%

### Cost Savings of 10% through Effective Resource Management

Implemented proactive maintenance strategies for MEP systems, leading to a 10% reduction in operational costs by minimizing equipment downtime and extending component lifecycles

### Successfully Led a Team of 45 Technicians

Managed a team of mechanical, electrical, and plumbing technicians during resort expansion projects, ensuring seamless coordination and timely completion of critical tasks

### Reduced Pump Room Downtime by 30%

Implemented preventative maintenance procedures for the resort's pump room, reducing downtime by 30% and ensuring uninterrupted water supply

## CERTIFICATION

### ISO 9001

QA and QC Welding inspection

## LANGUAGES

### English

Proficient



### German

Intermediate



## PASSIONS

### Reading

### Chess

## SKILLS

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### Mechanical System Design

HVAC Plumbing Piping Water Treatment Systems

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### Engineering Drawings

AutoCad 2D -3D Solidworks Excel Drawings

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### HVAC Systems

System Installation Commissioning

Heat Load Calculation

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### Microsoft Office Tools

MS Excel MS Powerpoint MS Word

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### Hydraulic and Pneumatic Systems

Hydraulic Power Unit Hydraulic Maintenance

Compressor Selection and Maintenance

Pneumatic Control Systems

## PASSIONS

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**Listening Music**