

GAUTHAM KUNJITHAPATHAM

Ras Al Khaimah, UAE.

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Career objective:

Diligent **maintenance and reliability professional** with a robust background spanning **2.7 years** within the mining industry. Renowned for a results-driven approach, I possess a solid track record of leveraging analytical prowess and a commitment to excellence to tackle complex maintenance and reliability issues. Demonstrating a blend of technical acumen and professionalism, I am dedicated to supporting the company in reaching its objectives and fostering both organizational and personal advancement. Committed to implementing innovative solutions that optimize equipment performance, minimize failures, and drive continuous improvement.

EXPERIENCE:

Maintenance and Reliability Engineer – STEVIN ROCK, Ras AL Khaimah, UAE

Maintenance (Fleet 800Pcs) - earthmoving equipment's – (APR 2021 – Present) (**2.7 Year's**)

- Assist operations with **equipment troubleshooting and FMEA**.
 - Led root cause analysis investigations to identify and eliminate recurring equipment failures.
 - Spearheaded the implementation of predictive maintenance programs, resulting in a notable **20% reduction in equipment breakdowns** for various earthmoving machinery.
 - Extensive knowledge on **trouble shooting of Hydraulics issues** in dumpers and front-end loaders.
 - Conducted risk assessments and **failure mode analysis to enhance equipment reliability**.
 - Undertook major rebuilds involving engines, transmissions, pumps, chargers, and power take-off (PTO) systems, specializing in models such as C16, C32, QSM11, and KTA38
 - As a maintenance engineer had to do **technical analysis** on machines to assess the condition of the asset and perform decommissioning.
 - Oversaw the implementation and execution of CMMS across four sites. Starting with asset codification, BOM and integration with autonomous monitoring to support maintenance.
 - Was a member of the transformational team and performed several analyses for the smooth transition of the organization into a different phase. (PMP, Impact analysis, MOC, Brain Storming)
 - Demonstrate continuous improvement of equipment and system reliability by applying the appropriate ReliabilityCentered Maintenance Strategies, measured by MTBF, OEE & Mechanical Availability.
 - Implemented a **breakdown capturing system** (Online) to get a detailed planning and control over the fleet and its related breakdowns. Perform **equipment failure analysis** to prevent reoccurrence.
 - Conducted **field inspections to identify defects and system and component level** as a part of **reliabilityengineering**.
 - Engaged in document research, design and execution throughout four sites in the organization and developed an **automatic planning System**.
 - Established and maintained **PIT-CONTROL (Centralized)** to allot available resources **effectively and efficiently**.
 - Orchestrated the implementation and execution of a remote condition monitoring devices to bridge the gap across maintenance. Integrated vibration monitoring and automatic lubrication across static plant and mobile plant maintenance.
 - Has been a key member to Implement proactive reliability strategies and continuous improvement initiatives to achieve world-class maintenance.
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INTERNSHIPS (Technical Training):

Caterpillar- Graduate Engineering Trainee - Al Bahar–Sharjah, UAE:

- Technical Training on major **Caterpillar Rebuilds** and **Test benches**.
- Worked on Product Link and remote monitoring.
- Used Technical data to predict component failures. **Analyzed Dyno Test** reports to align manufacturer standard.
- Developed a **midlife** program for the Cat Hydraulic Shovels.

EDUCATIONAL QUALIFICATION:

| QUALIFICATION | UNIVERSITY/SCHOOL | YEAR | MARKS (CGPA) |
|--|---|-------------|-------------------------------------|
| MBA (Operations & Production Management) | SGVU | 2022-2024 | 9.2 (Sem 1) |
| Professional degree in Design and Analysis | SKILL INDIA / CADD / DSS | 2019 - 2020 | S+ |
| BE (MECHANICAL ENGINEERING) | ANNA UNIVERSITY | 2016 - 2020 | 7.73 (FIRST CLASS WITH DISTINCTION) |
| Higher Secondary | VVMHS | 2015-2016 | 83.16 % |
| 10 th (CBSE) | INDIAN SCHOOL RAS AL KHAIMAH (UNITED ARAB EMIRATES) | 2013-2014 | 8.4- CGPA |

RESILIENCE ENGINEERING SKILLS:

Reliability Skills:

- Root cause analysis.
- FMEA
- GD&T.
- Design and Analysis.
- Asset maintenance strategies
- Drive World class maintenance.
- Fault tree analysis
- Pro-Active maintenance / PDM
- Asset life cycle costing

Industry level competency:

- Attention to detail.
 - Good analytical skill
 - Project management.
 - Driven continuous improvement.
 - Interdisciplinary knowledge.
 - CAPEX & OPEX
 - Asset codification
 - Condition monitoring – integration
 - Thermal Analysis (Thermal map)
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ACQUIRED SKILLS:

MAINTENANCE PROFICIENCY:

- Troubleshooting of Mechanical Issues.
- Trained on component rebuilds on cat engines and control block (HYD).
- Trained on FMS Installations.
- Hydraulic Troubleshooting.

KEY MECHANICAL SKILLS:

- Quick trouble shooting.
 - Strong foundation on mechanical fundamentals.
 - Thrive in constraint repair locations.
 - Reverse engineering of components.
 - Work according to OEM Tolerances.
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ACADEMIC PROJECT:

- **Experimental analysis and fabrication of solar still with NANO FLUID as the working medium.**
With the help of **NANO FLUIDS** and evaporation the abundant seawater is converted into drinkable and desalinated water to resolve and drive out the water demand in the world.
 - **Designed and manufactured an off-road vehicle for auto sports India (2019).**
As a power train lead, I have Manufactured an off-road vehicle for the endurance competition to compete in the rough terrain.
 - **Designed and manufactured an industrial shredder with torque multiplication system (2018).**
Conceptualized, designed, and manufactured an innovative industrial shredder featuring a **cutting-edge torque multiplication** system. This project involved the integration of advanced **engineering principles** to enhance efficiency.
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PUBLICATIONS:

- Published an **international journal** on the **various effects of nanofluids in** (ELSEVIER)
LINK: (<https://www.sciencedirect.com/science/article/pii/S221478532034743X?via%3Dihub>)
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ACADEMIC ACHIEVEMENTS:

- Obtained a cash reward for securing **third place** in the **anna university exams** with high grades in all the six subjects during the academic year.
 - Awarded a certificate for the representation of the college in the **society of automobile engineers** in various events during the year (**Design of Chassis with best structure and low cost**).
 - Have been rewarded the first place on **greenhouse designing** held at a national level technical symposium.
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PERSONAL DETAILS:

- Date of Birth : 24th JULY 1998.
 - Gender : Male.
 - Nationality : Indian.
 - Passport : valid till 2024.
 - Driving license : INDIAN / UAE driving license.
 - Languages Known : Tamil, English, Malayalam and Hindi.
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DECLARATION:

I do hereby declare that all the above particulars are true to the best of my knowledge and belief and I conform that I know I would be held accountable if any details given above are found incorrect or false.

Place: Ras Al Khaimah

Yours Faithfully,
Gautham Kunjithapatham
