

## GAUTHAM KUNJITHAPATHAM

Ras Al Khaimah, UAE.

Mobile No: 056-5445482 / Email ID: [gauthamkumar241@gmail.com](mailto:gauthamkumar241@gmail.com)

Website (Portfolio): <https://kumargautham.github.io/GAUTHAM-PORTFOLIO/>

LinkedIn: [www.linkedin.com/in/gautham-kunjithapatham-b07759169](https://www.linkedin.com/in/gautham-kunjithapatham-b07759169)



---

### Career objective:

Diligent **maintenance and reliability professional** with a robust background spanning **3 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 1200Pcs) - earthmoving equipment's – (APR 2021 – Present) **(3 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 H and front-end loaders.
- Conducted risk assessments 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.
- Developed reliability metrics across fleets ranging from PC2000, CAT 6030, CAT 6020, HD1500, HD785, CAT 992's & 9923's.
- 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, Brainstorming).
- Demonstrate continuous improvement of equipment and system reliability by applying the appropriate ReliabilityCentered Maintenance Strategies, measured by MTBF, OEE & Mechanical Availability.
- Conducted **field inspections to identify defects and system and component level** as a part of **reliabilityengineering**.
- 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.
- Developed KPI across maintenance group to identify against leading and lagging actors.
- Worked on pareto analysis to map a technical defect to dive into Fish bone analysis.
- Expert level knowledge on performing root cause analysis followed by FMEA.
- Implemented 5S strategies across workshops to establish a clean working environment.
- Lead for various Decommissioning and commission of assets withing the organization across a fleet of 1200 equipment's.

- Engaged in document research, design, and execution throughout four sites in the organization and developed an **automatic planning System**.
- 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.
- Oversaw the implementation and execution of CMMS across four sites. Starting with asset codification, BOM and integration with autonomous monitoring to support maintenance.
- Established and maintained **PIT-CONTROL (Centralized)** to allot available resources **effectively and efficiently**.
- Knowledge on **CAT ET and CUMMINS INSITE** to support technical troubleshooting.
- Efficient in performing inventory planning to assist and support MTTR.
- Have established ideal man to machine ration across the maintenance group for achieving effective and optimized usage.

---

#### EDUCATIONAL QUALIFICATION:

QUALIFICATION	UNIVERSITY/SCHOOL	YEAR	MARKS (CGPA)
MBA (Operations & Production Management)	SGVU	2022-2024	9.2 (Sem 3)
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 <sup>th</sup> (CBSE)	INDIAN SCHOOL RAS AL KHAIMAH (UNITED ARAB EMIRATES)	2013-2014	8.4- CGPA

---

#### 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.
  - **Analyzed Dyno Test** reports to align manufacturer standard.
  - Developed a **Midlife** program for the CAT Hydraulic Shovels.
  - Worked on a project on designing and commissioning of dyno test benches for transmission testing.
  - Worked on analyzing CAN data to interpret the OEE (Fuel Vs Energy) of an equipment.
  - Worked on Enhanced machine trouble shooting with **CAT ET**.
-

---

## **RESILIENCE ENGINEERING SKILLS:**

### **Reliability Skills:**

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

### **Industry level competency:**

- Attention to detail.
- Good analytical skill
- Project management.
- Interdisciplinary knowledge.
- CAPEX & OPEX
- Condition monitoring – integration
- Thermal Analysis (Thermal map)

---

## **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 **varying torque multiplication** system. This project involved the use of advanced **engineering principles** to enhance efficiency.

---

## **PUBLICATIONS:**

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

---

## **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 **green house designing** held at a national level technical symposium.

---

## **PERSONAL DETAILS:**

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

---

## **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

---