[Image result for linkedin logo](http://www.linkedin.com/in/anasabdulbasheer)

**ANAS ABDULBASHEER** +971-501561031

[anasbasheer@yahoo.com](mailto:anasbasheer@yahoo.com)

**Mechanical Engineer – Proficient in AutoCAD, ANSYS, SOLIDWORKS, REVIT MEP**

Recent graduate from a top-tier university with in-depth understanding of electromechanical systems, fluid dynamics, industrial standards and products, hydraulics, thermodynamics and mechanical assembly.

Design Mechanical Device Projects Develop Design Calculations Technical Product Writing Machining & Fabrication Process Product assembly and validation CAD Blueprints Problem Solving Prototyping Industrial management Mechatronics Mathematical modelling.

# Education and Professional Development

* 1. **ech Bachelors in Mechanical Engineering**, Rajadhani Institute of Engineering & Technology, Trivandrum (2014-2018) with a CGPA 6.63 (First Class)

**Master Diploma in Mechanical CAD**, Acumen Global Pvt Ltd, Trivandrum (01/19-7/2019) with A+ Grade.

**All India Senior School Certification Examination** (Class 12), Govt. Higher Secondary School, Trivandrum (2014) with a percentage of 83% (First Class)

**Secondary School Examination** (Class 10), KTCTEMRHS, Trivandrum (2012) with a CGPA 8.

Currently pursuing the professional course on 2D and 3D mechanical design in AUTOCAD, CREO and analyzing the designs on ANSYS.

# Technical Skills

|  |  |
| --- | --- |
| Design and Modelling Software | AutoCAD(2D&3D), ANSYS, CREO, SOLIDWORK, CATIA, REVIT MEP |
| Operating Systems | Windows XP, Windows 8, Windows 10 |
| Application Software | Microsoft Office, Adobe Photoshop |

**Projects and Seminars**

## Project

**LATEX PROCESSING MACHINE**

**PROBLEM DEFINITION**

The conventional type latex processing uses two distinct rollers separately placed to process coagulated latex into a thin latex form. We have to insert latex in both roller by hand to complete the process. This type of latex processing machine requires more time and space to operate. The effort used to make latex by this process is large. Also, it requires continuous adjustment of roller gap for each latex processing. These takes more time to complete latex production in overall. The repeated process of adjustments causes discomfort to the operator.

## WHAT IS DONE

Designed and modified the machine by using four sets of rollers, which each set of rollers is mutually connected with gear. First three sets of rollers are identical in exterior and the last one set of rollers had thread pattern. The gear is provided on the ends of rollers and also, they are meshed with each other. It helps to transmit power from first set of rollers to the last one. We can adjust the roller gap at initially for getting required latex thickness.

## SKILLS USED

* + - Gear designing - calculated suitable dimension for gear with the help of DME DATABOOK
    - Material selection - selected the material for gear and roller
    - Welding process-TIG welding is used for better and precise welding for mild steel
    - Power transmission calculation
    - Torque calculation
* AutoCAD - Designing the machine layout
* ANSYS– to calculate bending stress and deflection

# Seminar

## PSEUDO SINGLE ROW RADIATOR DESIGN PROBLEM DEFINITION

Radiators are simple heat exchangers which distribute the heat by natural air circulation. In recent multi row radiator tubes have spaces between them to accommodate sufficient ligament in order to join the tubes with the head. This design has some limitations such as there is no contact surface between the tube rows so the conduction of heat is hindered, as a result the rate of heat conduction to the fins and across the tube rows decreases. Other than this the current design has limited tube wall thickness. If the conventional tube wall thickness is beyond the maximum allowable value, then it would tend to distort, resulting in disturbed fin-tube bond, and hence the performance is affected. So, the tube thickness and hence the performance is limited in the current design

## WHAT IS DONE

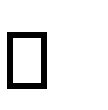
In this seminar paper puts forth a new improved radiator design that may be a used in place of the current radiator design. The space between tubes are filled with material with light weight and good heat conduction metal strips. CFD analysis in SOLIDWORKS used to calculate outlet fluid temperature. Outlet fluid temperatures on both radiator design was calculated and analyzed. Thus, the overall radiator efficiency increased with material with light weight and good heat conduction.

## SKILLS USED

* SOLIDWORKS
* Heat and Mass Transfer calculation

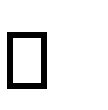
# Industrial Visits and Training

**KMML**



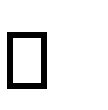
Gained a good understanding of fully automized technologies produces Titanium dioxide product by reacting Titanium ore with chlorine gas in the world first fully integrated Titanium dioxide plant. Beach sand processing and kroll process are well organized under trained engineers.

**KAL**



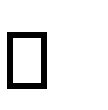
Understood the underlying mechanics of automobile assembly and production of transport vehicles carried out strict rules of quality standards. Lathe, welding and CNC programming sectors and collectively by fully and semiautomatic units.

## PRAKASH BODYWORKS



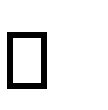
Gained a good understanding of advanced machines that are used to make both outer and inner body of heavy and passenger type vehicles. They used high grade drilling, cutting, shearing machineries. MIG welding are preferred to avoid rusting of metal parts and to provide long last to structure.

## FAMILY PLASTICS



Injection moulding, mould making and quality testing sections which requires experienced hands were totally understood. Injection moulding technique was a major area of study for product manufactures. Polypropylene is the raw material used to make plastic product.

**KSRTC**



The production line from assembling to launching new buses were streamed in different sections. Engine assembling and dismantling skills are necessary to the peak. Transmission, fuel injector and transmission checking sections are part of the units.

# Interests

2D &3D MODELLING, READING, DRAWING, FOOTBALL

I do hereby declare that the above statements mentioned in my resume are true and correct to the best of my knowledge and belief.

Place: AL HUDAIBA, DUBAI

Date: 01-05-2020 ANAS ABDULBASHEER