

NAME : JAKAN MAGUDAPATHY
ID NO : 15M622
DEGREE : Bachelor of Engineering (5th Year)
BRANCH : Mechanical Engineering (Sandwich)
COLLEGE : PSG College of Technology, Coimbatore



Father's name : Magudapathy S
Gender : Male
Date of Birth : 16th August 1997
Languages known : English, Tamil
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ACADEMIC RECORD

Course	Institution	Board/ University	Year of completion	CGPA / Marks %
B.E.	PSG College of Technology, Coimbatore	Anna University	2020	7.0*
XII	Vidhya Vikas Boys Hr. Sec. School, Tiruchengode, Namakkal.	State Board	2015	96.4
X	A.E.T Matric Hr. Sec. School, Erode.	State Board	2013	95.8

* - Upto 9th semester

AREAS OF INTEREST

- Fluid Mechanics
- Heat Exchanger
- Rotating Equipments

SKILL SET

Drafting Software	AutoCAD 2016
Modelling Software	PTC Creo – Parametric 3.0
Analysis Software	ANSYS Mechanical APDL 15.0
Platforms	Microsoft Windows
Languages	Fundamentals of C++

IN-PLANT TRAINING

INDUSTRY	PERIOD	AREA OF EXPOSURE
PSG Industrial Institute, Coimbatore.	2 Years	HEAVY ENGINEERING DIVISION (HED): <ul style="list-style-type: none"> • Parts of Lathe • Operations in Lathe. • Hands on training in Lathe ROTATING MACHINERY DIVISION (RMD): <ul style="list-style-type: none"> • Manufacturing & assembly of Monoblock and Submersible pump.
PSG Foundry Division, Neelambur.	2 Months	<ul style="list-style-type: none"> • Melting and Pouring • Core Making • Pattern Shop • Machine Molding • Fettling Process
AQUA SUB ENGINEERING, Coimbatore.	2 Months	<ul style="list-style-type: none"> • Total Productive Maintenance • Quality Control • Motor & Pump assembly

ACADEMIC PROJECT

- ❖ Design and Fabrication of “**Frictionless Power Transmission**” Using NeFeB Magnetic Gears and Magnetic belt under the guidance of Mr. A. Mohan Raj, Assistant Professor, PSG College of Technology.
 - **Objective:** To Design a Power transmitting drive with zero frictional loss.
 - **Work:** Used magnetic repelling force to avoid contact between parts and thus using the same to transmit power. Worked in constructing magnetic gear drive and magnetic belt drive.
 - **Conclusion:** Power is successfully transmitted without frictional loss in gear drive and partially successful in belt drive.
- ❖ Development of low cost powered lift seat (mobility aid) to assist elderly and differently abled, under the guidance of Mr. V. Satish Chandran, Assistant Professor, PSG College of Technology.
 - **Objective:** To Design a lifting mechanism which is compatible with western basins.
 - **Ongoing Work:** Design phase for the project has been completed and its currently being fabricated.

INTERNSHIP PROJECT

❖ “**CONDITION MONITORING OF ROTATING EQUIPMENT**” under the guidance of Mr. K. Muralidharan, Project Manager, Aqua Sub Engineering, Coimbatore.

- **Objective:** To continuously monitor the health of monoblock pump in terms of vibration.
- **Work:** We developed a predictive maintenance system which continuously monitors the health of machine in terms of vibration and intimates the operator about the damage that is bound to happen with indication of residual life of every individual elements of rotating equipment in a machine, we used neural networks to identify the defects and to predict the remaining life.
- **Conclusion:** The defects are predicted and breakdown of the machines are eliminated.

CO-CURRICULAR ACTIVITIES / ACADEMIC ACHIEVEMENTS

- Completed **GIAN** course on **Efficient Heat Transfer Utilizing Liquid / Vapour Phase Change** at IIT Madras, Dec 2019.
- Won 1st prize in the **Material Cognizance** competition conducted by **Students Union** of PSG College of Technology, Kriya 2019.
- Attended Workshop on **Management 2.0** Conducted by experts from **Udacity India** and **Red Bus** as a part of **Kurukshetra** at College of Engineering, Guindy 2018.

EXTRA-CURRICULAR ACTIVITIES

- Served as a **Join Secretary** in **Fine Arts Club** from August 2018 to April 2019.
- Won 2nd prize in the **Forensicist** competition conducted by **Students Union** of **PSG College of Technology**, Kriya 2018.
- Convener in the event of **HAJO** Conducted by **Fine Arts Club** of **PSG College of Technology** 2018.
- Passed in Certificate **A** Exam Conducted by **NCC**, under the authority of **Ministry of Defense**, Government of India 2012.

HOBBIES

- Badminton
- Bike riding

DECLARATION

I, Jakan Ma, do hereby confirm that the information given above is true to the best of my knowledge.

JAKAN MA