Curriculum vitae

PERSONAL INFORMATION Leander Antony A

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STUDIES APPLIED FOR

Master of Science in Sustainable Energy Technology

EDUCATION AND TRAINING

06/2019–12/2019 Research project

Manipal Institute of Technology, Manipal (India)

- Conducted numerical analysis on the enhancement of the thermal performance of solar air heaters with spherical turbulators.
- Achieved significant performance improvement compared to conventional solar air heaters.
- First authored a research paper published on the journal "Solar Energy"- the official journal of The International Solar Energy Society(ISES).

08/2015–05/2019 Bachelor of Technology(B.Tech) in Mechanical Engineering

Manipal Institute of Technology, Manipal (India)

- Worked on a project titled
 - "Experimental Study of Single Pass Double Flow Solar Air Heater for Performance Improvement <u>Using Perforations</u>" and achieved the highest thermal efficiency of 73%.
- Seminar delivered on "Ocean Wave Energy".

Relevant Electives:

- Non-conventional sources of energy- Liquid flat plate collectors, Ocean energy, Solar energy, Wind energy, and Biomass energy.
- Minor specialization in Business Management.

07/2012–04/2014 Senior Secondary School Certificate, Central Board of Secondary Education(CBSE)

The Velammal International School, Panchetti, Thiruvallur (India)

■ Percentage - 88.8%

07/2010–04/2012 Secondary school certificate, Central board of secondary education(CBSE)

Sainik School Amaravathinagar, Tiruppur (India)

■ CGPA - 9.6

WORK EXPERIENCE

06/2018–07/2018 Industrial Internship

Sundram Fasteners Limited, TVS group, Gummidipoondi, Chennai (India)

■ Gained industrial insights into the manufacturing of water pump bearings, cam-shafts, oil pumps for

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commercial vehicles, and belt tensioners.

 Hands-on training regarding the numerous calibration techniques for Dial indicators, Snap gauges, Master plugs, and Master rings.

06/2017-07/2017

Industrial Training

Brakes India Private Limited, Padi, Chennai (India)

 Underwent training on the production of Brake calipers, Brake actuators, Air disc-brakes and Clutch actuators.

PERSONAL SKILLS

Mother tongue(s)

Tamil

Foreign language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
A1	A1	A1	A1	A1
C2	C2	C1	C1	C2

German English

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user Common European Framework of Reference for Languages - Self-assessment grid

Digital skills

- Design and drafting: AutoCAD(Intermediate)
- 3D Modeling: CATIA(Proficient), Solidworks(Basics)
- Simulation and analysis: ANSYS(Proficient)
- Programming languages: C, C++(Intermediate), Python(Basics), R(Basics)
- Numerical computation: MATLAB(Intermediate), GNU octave(Basics)
- Diploma in MS-Office(DMO)

ADDITIONAL INFORMATION

Publications

Research paper titled "Influence of stepped cylindrical turbulence generators on the thermal enhancement factor of a flat plate solar air heater".

Extracurricular Activities

Working committee member of the student club, Institute of Engineers-Mechanical(IE-Mechanical)

- Conducted various workshops for the benefit of the students (Lathe operations tutorial, AutoCAD training).
- Organized placement talks for the juniors.
- Ran the Manipal Marathon (2019) to promote mental health awareness.

Participated in the National Cadet Corps (NCC) combined annual training camp (army wing)

- Partook in cleanliness drives conducted across campus.
- Recipient of various medals in debate and quiz competitions.

Courses

- R-Programming basics (HarvardX) on Edx.
- Introduction to Python (University of Michigan) on Coursera.

Honours and awards

- Achieved the maximum grade of 10 points for undergraduate thesis.
- Secured 2nd place in the essay writing competition conducted by the Indian Medical Association (IMA).
- Secured 3rd place in a state-level Open Chess Tournament.