

Dayasagar Bandi

Data Analyst

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EDUCATION

New England College, NH, USA Ms in Computer Science	2022-2024 GPA – 3.96/4.00
Jawaharlal Nehru Technological University, Kakinada M. Tech (Thermal Engineering)	2018-2020 CGPA – 71.92/100
Jawaharlal Nehru Technological University, Kakinada B. Tech (Mechanical Engineering)	2015-2018 CGPA – 71.91 /100
GRE – 325 /340 (166 Q, 159 V, 3.0 AWA) TOEFL – 97 /120 (R 27, L 28, S 16, W 26)	

RELEVANT COURSEWORK

Computer Science & IT, Artificial Intelligence (AI), Thermodynamics, Heat transfer, Fluid Mechanics, Solid Mechanics, Production Technology, Machine Design, **Renewable Energy Technologies**, Computational Fluid Dynamics (CFD), Industrial Engineering, Finite Element Methods, **Internal Combustion Engines**, Fuel Combustion & Environment.

RESEARCH EXPERIENCE

Jawaharlal Nehru Technological University, Kakinada **Aug 2018 - Jan 2021**

Masters' Thesis – Improving Thermal Power plant Efficiency

- Heat transfer Investigation of the Plain Condenser tube is done to find out the heat transfer rate and terminal temperature difference for different Mass Flow Rates.
- Based on the results obtained a new corrugated tube is designed in two aspects to investigate the heat transfer rate. CFD Analysis done for all three Condenser tube models and results obtained.
- The thermal model which is main input to structural model was validated with the literature data
- After validation, from the heat transfer analysis it is observed that the heat transfer rate is increasing with corrugated tube than plain tube and the terminal temperature difference is improving with corrugated tube.
- It is observed that adding Corrugated Ribs on pipes will increase the heat transfer of the Pipe by 16.16 % if the Heat transfer of the Condenser is increased the overall thermal efficiency of power plant will also Increases.

Jawaharlal Nehru Technological University, Kakinada **July 2015-May 2018**

Undergraduate Thesis – Study of Lube oil system for industrial turbines

- During My project the STUDY OF LUBE OIL SYSTEM FOR INDUSTRIAL TURBINE I was analyzed & Learned about Bharat Heavy Electricals Limited profile.
- Studied about Lube oil system equipment such as Lube oil tank, oil pump, oil coolers, lube oil filters and overhead tank. The main thing is how it is supplied from one component to another components & understanding that Designs of lube oil supply chain and the process of Lube oil system.

PROFESSIONAL EXPERIENCE

Central Institute of Tool Design, Vijayawada **Dec 2014 – Jun 2015**

Designation – Industrial Trainee

- Master in CAD / CAM Course

National Remote Sensing Centre (ISRO), Hyderabad **Apr 2017 – Jun 2017**

Designation – Project intern

Role 1 – Performing Preventive Mechanical Maintenance of 7.5 m Antenna Systems.

Role 2 – Manufacturing the Flange Coupling by using Lathe Machine. the torque coupling and flange coupling widely used in Antenna Systems.

Bharat Heavy Electricals Limited (BHEL), Hyderabad

Dec 2017 – Jan 2018

Designation – Project Student

- Study of Lube oil Systems For Industrial Turbines

Rashtriya Ispat Nigam Limited (Vizag Steel Plant), Visakhapatnam

Feb 2018 – Mar 2018

Designation – Project intern

- Comprehensive Study on Visakhapatnam Steel Plant Mechanical works.

Indira Gandhi Centre For Atomic Research Centre (Dept. of Atomic Energy), Chennai Aug 2019 – Sep 2019

Designation – Project intern

- Study of Basics of Nuclear Reactors and Computational Fluid Dynamics (CFD) Software.

APGENCO (Vijayawada Thermal Power Station), Ibraimpatnam

Jan 2020 – Jul 2020

Designation – Project Student

- Improving Thermal Power Plant Efficiency

NPTEL CERTIFICATION COURSES FROM INDIAN INSTITUTE OF TECHNOLOGY

- NPTEL Online Certification Course in **IC Engines and Gas Turbines** with 70% Conducted by **IIT Guwahati**
- NPTEL Online Certification Course in **Introduction to Fluid Mechanics** with 59% Conducted by **IIT Kharagpur**
- NPTEL Online Certification Course in **Laws of Thermodynamics** with 74% Conducted by **IIT Kharagpur**
- NPTEL Online Certification Course in **Conduction and Convection Heat Transfer** with 53% Conducted by **IIT Kharagpur**
- NPTEL Online Certification Course in **Computational Fluid Dynamics For Incompressible Flows** with 69% Conducted by **IIT Guwahati**
- NPTEL Online Certification Course in **Power Plant Engineering** with 90% Conducted by **IIT Roorkee**

PROGRAMMING LANGUAGES AND SOFTWARES

- Mysql, Java, Python, Power BI, R & RStudio, Auto CAD, solid works, ANSYS Fluent

PUBLICATIONS

Journal Papers

BANDI DAYASAGAR., Madhu Latha Nookabathina, Maddu Murali Krishna, Pilli Praveen and Akkimsetti Soma Raju Improving Thermal Power Plant Efficiency. International Journal of Recent Technology and Engineering. ISSN : 2277-3878, Volume – 8, issue – 6, March – 2020.

BANDI DAYASAGAR., Akkimsetti Somaraju “Improving Thermal Power Plant Efficiency”. International Journal for Research in Engineering Application & Management. ISSN : 2454-9150, Volume – 07, Issue – 02, May – 2021.

HOBBIES

- Singing and Playing indoor games like carroms, chess etc.