

# Bhoga S Kiran Pandranki

## MSc Mechanical Engineering Student

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MSc Mechanical Engineering student with a year in industry experience, seeking a graduate role in Mechanical Engineering, with the aim of becoming a chartered engineer. I was thrilled to be given the opportunity to apply what I had learned during my academic to engineering problems. My studies have given me a comprehensive understanding of mechanical engineering methodologies, tools, software packages, and approaches. Alongside this, I learned how to collaborate with other people, which improves the way I worked in a team to reach a common goal during my placement, and this helped me to hone my communication, and team player skills.

## EDUCATION

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**2020-09 - 2022-09**     **Master of Science: Advanced Mechanical Engineering with Industry**

*University of Leicester – Leicester, United Kingdom*

- **Relevant modules:** Advanced Fluid Dynamics (88%), Advanced Solid Mechanics (97%), Computational Fluid Dynamics (84%), Dynamics of Mechanical Systems (68%), Advanced Gas Turbines (95%), Systems Engineering & Spacecraft Systems (88%), Aerospace Materials (87%).
- Overall Aggregate: **81.67%**
- Achieved result: **Distinction.**
- Awarded **M.Sc. in Mechanical Best Student Prize** for outstanding performance in Master Programme of Mechanical Engineering.

**2015-07 - 2019-05**     **Bachelor of Technology: Mechanical Engineering**

*Sri Vasavi Engineering College (autonomous) - Peda Tadepalli, A.P, India*

**Relevant modules:** Solid mechanics, Theory of Machinery, Thermodynamics, Design of machine elements, Engineering mechanics, Fluid mechanics, Heat transfer, Refrigeration, air-conditioning and heat pump engineering, Engineering mathematics, Engineering Drawing & machine drawing, Manufacturing Engineering, Turbomachinery, Thermal Engineering.

- Overall aggregate - **77.71% (FIRST CLASS + DISTINCTION)**
- During my undergraduate studies, I published one paper in International Journal for Research in Applied Science & Engineering Technology (IJRASET) in my field. It focused on the usage of Biodiesel in Diesel engines.

- In this work, we prepared biofuel from used cooking sunflower oil. Then the blends of biodiesel (B-0, B-20, B-50, and B-100) tested on Diesel engine to get optimum blend on performance and emission characteristics.
- **Thesis topic:** Synthesis & Characterization of Bio Diesel on The Performance and Emission of Diesel Engine.
- Supervisor: Asst.Prof V. Sarath Teja. The study aims at the usage of Biodiesel in Diesel engines. And how blends of Biodiesel effect the performance and emission characteristics of Diesel engine.
- **Key Achievements:** Awarded 15,000 INR, Years - 2016,2017, Sri Vasavi Merit Scholarship for Best EAMCET Ranker and Semester Wise Class topper.

## RELATED EXPERIENCE

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**2021-07 -  
2021-12**

### **Piping Design Engineer Intern**

*Vista Tech Engineering Services, Hyderabad, Telangana, India*

#### **Key Responsibilities**

- Mechanical Design of Pressure Vessels, Waste Heat Boilers, as per ASME BPVC Section I, Section VIII.Division.1, Indian Boiler Regulation (IBR).
- Created 3D models and 2D drawings of planned piping structures and designs using AVEVA PDMS & SOLIDWORKS as per ASME 31.3.
- Checking of Drawings & Details with Code Calculations for Compatibility.
- Preparation of Spread sheet calculations based on requirement.
- Developed Plant & Unit layouts using AVEVA PDMS.
- Created piping line list and BOM from P & ID.
- Interacted with clients to discuss technical specifications and other requirements and attended Technical Review Meetings.
- Assisted the supervisor in the development of equipment layouts and piping isometrics.

#### **Key Achievements**

- The first lesson I learned was the importance of **teamwork**. This internship taught me how to operate as part of a team rather than focused solely on myself. And I learned to be patient with other members of my team when I disagree with them.

- This internship has also made me more **responsible and accountable** for the judgments I make and how I carry out the tasks that have been assigned to me.
- This internship also exposed me to real-world job difficulties, which helped me to improve my **problem-solving abilities**.
- **Time management and planning** is the last item on my list, but it is just as vital as the others. As a result, it assisted me in better managing my time by ensuring a healthy balance between my job and personal life.

## **ADDITIONAL EXPERIENCE**

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### **Dec 2021- Dec 2022, Customer Assistant, Sainsbury, Leicester.**

- Greet and assist customers with their shopping needs.
- Resolve customer complaints in a professional and courteous manner.
- Restock shelves, organize, and maintain displays, and assist with inventory control.
- Operate cash register, process payments, and issue receipts.
- Assisted customers in locating items and provided product information.
- Collaborated with colleagues to meet customer needs.
- Picking, packing, and shipping customer orders, consistently maintaining my day target.

Helped me in acquiring following skills:

- **Ability to work under pressure:** During seasonal peaks, I maintained a high level of performance.
- **Attention to detail:** Picking and packing items with nearly flawless precision.
- **Patience:** Customer service can be stressful, so having patience is a must to ensure that customers feel valued.
- **Teamwork:** Being a strong team player and helping out coworkers as needed to complete tasks quickly and efficiently.
- **Time management:** Managed my workload to ensure that all tasks are completed in a timely manner.
- **Customer service:** Developed strong customer service skills to understand customers' needs and provide assistance.
- **Problem Solving:** I developed the ability to think on my feet and solve problems quickly and efficiently to deal with customer issues.
- **Communication:** Effectively communicating with customers in person, as well as via phone.

- **Adaptability:** Quickly adapting to changing customer needs and a busy environment.

## TECHNICAL SKILLS

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- **SOLIDWORKS (Intermediate)**

**Solidworks Design Professional Certificate** – a certification that demonstrates my knowledge and proficiency in using Solidworks to design and create 3D models.

**Skills Include:** Mechanical Design, Drawing Tools.

- Proficiency in 3D modeling and complex assembly design in Solidworks.
- Expertise in creating detailed drawings, CAD models, and assemblies.
- Ability to design and document parts, assemblies, and drawings.

- **AVEVA PDMS (Beginner)**

Skills Include: Equipment modelling, Pipe Routing, Structures, Error Checking & Clash checking, Hangers & support, Drafting.

### IT SKILLS

- Competent user of **Microsoft Word, Excel, and PowerPoint** that I use on regularly throughout my academic program.

## SOFT SKILLS

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### Organization and planning

- Managed my time at university during masters to meet multiple deadlines whilst working as a part-time warehouse operative and maintaining my interests. This also helped me to achieve multi-tasking and time-management skills.
- Managed my time at Engineering College during bachelors to meet multiple deadlines whilst preparing for competitive exams and jobs.
- Always make the lists, using a stick note, and prioritize the tasks. This makes it easier for me to keep track of my everyday activities.

### Analysis

- I always break down problems or situations into smaller, more manageable pieces. And putting bits of information together to come up with conclusions. I learned this approach of solving a problem while I was preparing competitive exams where we need to determine what we are supposed to find, what way we need to find it, and what the unknown is from the bunch of information provide in the question. And this approach always helps me well in any situation that I get stuck.

## **Communication**

- Worked as a Class-coordinator during my bachelors and developed a rapport with my classmates has significantly improved my inter-personal skills.
- As I have worked in an organization for 6 months, communication plays most important role where I need to communicate not only with supervisor but also with different members from different departments.

## **ACCOMPLISHMENTS**

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- Acted as a class co-coordinator for campus in house training program.
- Extensively represented campus technical fests like TECH EUPHORIA for two years.
- Got 89.03 percentile in the All-India Graduate Aptitude Test in Engineering (GATE 2020) in Mechanical Engineering.
- Got 82.95 percentile in the All-India Graduate Aptitude Test in Engineering (GATE 2019) in Mechanical Engineering.

## **INTERESTS**

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- **Single, Multiplayer video gaming and Badminton:**

During free time, I played multiplayer games with my school friends. Develop effective communication skills playing multiplayer games, while building interpersonal and decision-making skills in my team position. I have also learnt time-management skills through balancing my academic work and maintaining my interests.

## **LANGUAGES**

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Telugu - Mother Tongue

English - Business fluency

## **REFERENCES**

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Available on request