

RAVI SANKAR KARANAM

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OBJECTIVE:

As a Seasoned Mechanical Engineer with a solid foundation in design and hands-on project expertise, I am seeking meaningful opportunities within the core mechanical sector. I aim to leverage my refined design engineering skills to make impactful contributions to projects, underscored by a strong grasp of mechanical principles and a commitment to achieving excellence within collaborative environments.

EXPERIENCE:

Business Development Associate, BYJU'S

JANUARY 2024 – MARCH 2024

- Gained crucial experience in direct sales, fostering client relationships and achieving sales targets. Managed CRM software to track customer interactions, leads, and sales performance. Conducted needs-based consultations with parents and students, improving customer satisfaction and sales conversion.

Freelancing, Outsourcing

AUGUST 2023 – DECEMBER 2023

- Worked collaboratively within a team to recruit engineers for small-scale companies, conducting thorough skill evaluations to ensure alignment with project needs and company goals.

Design Engineer Trainee, Ascent CS Global

JULY 2023 – AUGUST 2023

- A dedicated Design Engineer Trainee with hands-on experience in industrial projects, specializing in training students on CATIA and AutoCAD for drafting and 3D design. Committed to imparting practical skills, bridging classroom learning with real-world applications in design engineering.

Intern, AEP

JANUARY 2022 – JUNE 2022

- Successfully utilized AutoCAD to design mechanical equipment and parts. Analyzed problems and offered mechanical solutions to existing problems.

PROJECTS:

Design and Analysis of Blind Flanges of Nozzle on Pressure Vessel

- Led the design and fabrication of the Top Link Assembly in the NPD Department, applying Catia V5 and Ansys software to develop innovative solutions. Managed the complete fabrication process, upholding rigorous quality standards and performing critical metallurgy lab tests. Leveraged hands-on expertise to drive continuous improvement in manufacturing processes, resulting in a refined Top Link Assembly that demonstrated comprehensive engineering skills and mastery of the full product development lifecycle.

Power Generation using Speed Breaker with the help of a Rack and Pinion Mechanism

- Created a prototype for generating electricity from speed breakers using a Rack and Pinion Mechanism, aimed at reducing reliance on thermal power plants and lowering pollution. Applied the generated electricity to practical uses, such as powering street lights and traffic signals, showcasing sustainable energy innovation.

Design and Analysis of Reinforcement pad of Nozzle Junction in Pressure Vessel

- This project examines the effect of the geometric gap between a cylindrical shell and a reinforcement pad on stress intensity near a nozzle penetration in pressure vessels under internal pressure. The aim is to strengthen the pressure vessel by optimizing the design and analysis of reinforcement pads at the nozzle junction, addressing structural weaknesses caused by the nozzle opening in the shell.

Automatically Timed Kinematic Transport System

- we developed an Automatically Timed Kinematic Transport System designed for precise and synchronized object movement along a specified path. By integrating timed kinematic control, the system efficiently minimized transport delays and improved workflow in automated processes. This innovation enhanced operational efficiency in assembly lines, showcasing our team's expertise in creating high-precision, reliable transport solutions for industrial applications.

EDUCATION:

Vignan's Institute of Information Technology

Bachelor of Technology, Mechanical Engineering
CGPA: 7.34/10

AUGUST 2018 – JUNE 2022

Sri Chaitanya Junior College

Intermediate
Percentage: 90.5%

JUNE 2015 – MARCH 2017

Siddardha High School

MARCH 2014 – MARCH 2015



S.S.C
CGPA: 9.8/10

CERTIFICATIONS:



Coursera:

- Modeling and Design for Mechanical Engineers with Autodesk Fusion 360
- Digital Manufacturing & Design
- Simulation Analysis for Mechanical Engineers with Autodesk Fusion 360
- Programming for everybody getting started with python
- Amazon web services Fundamentals
- Microsoft Azure AZ-900 Fundamentals

Udemy:



- Introduction to C, C++

SKILLS/INTERESTS:

- Design Software: AutoCAD, Catia
- Analysis Software: Ansys
- Additive Manufacturing
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- Languages: Proficiency in English, Telugu
- Hobbies: Reading Autobiographies, Playing Cricket, Badminton, football, Trekking and Esports player.

ACHIEVEMENTS & PARTICIPATIONS:

- Won Eenadu Cricket Cup held in Visakhapatnam, 2016.
- Achieved Best employee Award in Ascent CS Global in 2022.
- Secured 3rd Place in the Technical Paper Presentation Competition and presented on Artificial Intelligence in our college in 2021.
- Secured 2nd Place in the Technical Debate Competition in our college in 2021.
- Secured 3rd Place in the Technical Paper Presentation Competition and presented on Advances in Mechanical Engineering in our college in 2020.
- 3 Times undefeated Champion in Running Competition in 3KM & 5KM Races.