Mayanka Jha

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Introduction

As a highly motivated and talented Master's student currently working on my thesis I bring a unique blend of academics, a recent internship experience as a design engineer, and a one-year work experience in an MNC across multiple departments including sales and marketing, technical and management. My academic background and practical experiences have equipped me with a diverse set of skills including project management, time management,problem-solving, and research proficiency. I am a fast learner and always strive to go beyond the required expectations to deliver outstanding results. I am confident that my ability to work independently and in a team, my attention to detail, and my strong analytical skills will make me an invaluable addition to your organization. I am eager to leverage my skills and experiences to contribute to your organization's objectives and grow both personally and professionally.

Education

Master of Science Sep 2021 - Aug 2023(expected)
At the Faculty of Mechanical Engineering- Energy, Process and Flow Technology. *TU Delft, The Netherlands*

Bachelor of Technology June 2015 - May 2019
At the faculty of Mechanical Engineering *SRM Institute of Science and Technology India*

Thesis Work

Masters Thesis(Ongoing): Topology of hydrogen flames using tomographic chemiluminescence

Bachelors Thesis: Study of the effects of structural disorders in non-carbonous nano-materials using molecular dynamic simulation

Relevant coursework

Advanced heat transfer |Refrigeration and heat pump fundamentals| Advanced applied thermodynamics | Equipment for heat and mass transfer | Viscous Flows |Introduction to Multiphase Flows | Turbulence | Modelling of Thermo- and Hydrodynamic Systems|Measurement Technology | Control system design | Methods for risk analysis and management

Relevant Coursework Projects

Equipment of heat and mass transfer:
Design of shell and tube heat exchanger for OTEC, Design of plate heat exchanger for OTEC, Design of air cooled finned heat exchanger(Python)
Modelling of Thermo and Hydrodynamic Systems:
Numerical simulation of 2D channel flow(CFD)

Work Experience

SYNANO(Delft, The Netherlands)|Intern- R&D August 2022 - November 2022

As a mechanical design engineer intern, the given responsibility was to develop a cooling plate for a two-phase flow boiling experimental set-up such that surface modification(by application of nano-fluid) can be performed on the mini-channels by using a non-destructive approach. This work was a part of project ADENEAS((Advanced Data and power Electrical NEtwork Architecture and Systems).

Bridgestone India Private Limited(India)|GMTP-trainee July 2019- Sept 2020

As a part of the Graduate Management Trainee Program (GMTP), I had the opportunity to gain multidisciplinary exposure through a rotation program in various departments. The program offered short-duration live projects based on the timeline to stay in a particular department, which allowed me to gain experience in a wide spectrum of functions. My final deployment and confirmation were in the Logistics and Supply Chain Management (LSCM) department, where I was able to utilize my skills and knowledge to contribute to the organization's growth and achievement. Below is the summary of project work from various departments.

1. **Logistics and Supply Chain Management (Pune, India)**
   - Maintenance of minimal stock discrepancy and monthly stock report at warehouses across India
   - Internal and external audit preparation, documentation of warehouse manual
2. **Plant Engineering Department (Indore, India)**
   - Improvement of dust collector design, updating of BOM, the conceptual proposal of new conveyor design
3. **Quality Assurance Department (Indore, India)**
   - Process failure mode and effect analysis for bias cutter
4. **Technical Engineering Department (Indore, India)**
   - Proposal of a technical report involving details related to processes followed in the manufacturing of tires
5. **Commercial Sales Department(Delhi, India)**
   - Market research to target customers in a new segment of the market

Non-Academic Work Experience

During my bachelor's, being in one of the racing teams I had the opportunity to take part in off-road vehicle competitions where I was responsible for but not limited to working on the braking system of the vehicle. Below are the competitions I took part in and gained experience in the field of off-road vehicles:

1. BAJA SAEINDIA-2018
2. Virtual BAJA SAEINDIA-2017
3. Quad Bike Design Challenge -2016

Technical Skills

| Solidworks | AutoCAD | Solidedge | Python | MATLAB | LAMMPS | Microsoft Excel | Microsoft Power Automate

Non-technical skills

|Project Management|Conflict Resolution| Negotiation| Collaborative | Adaptability