

ASHISH PAKA

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EDUCATION

BACHELOR OF TECHNOLOGY (B. TECH.)

Mechanical Engineering

Manipal Institute of Technology – Manipal, Karnataka

CGPA – 7.49 CGPA

July 2016 – June 2020

PRE-UNIVERSITY (12th Board):

Telangana Board of Intermediate Education

Sri Chaitanya Narayana Junior Kalasala – Hyderabad, India

Major in physics chemistry and maths

Percentage – 95.2 %

June 2014 – May 2016

HIGH SCHOOL:

Indian Certificate of Secondary Education (I.C.S.E.)

Kalpa School, Hyderabad, Telangana, India

Percentage – 91.5%

Feb 2001 – March 2014

ELECTIVES IN B. Tech.

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|---|---------------------------------|
| ✓ Fluid drives and circuits, | ✓ Physics of Materials, |
| ✓ IC Engines and Emissions, | ✓ Radiation Physics, |
| ✓ Fatigue and Fracture, | ✓ Tribology, |
| ✓ Design for Manufacturing and Assembly, (DFMA) | ✓ Design of Mechanical Systems. |

CERTIFICATIONS

- **Introduction to Digital Manufacturing with Autodesk Fusion 360** (Autodesk Inc.),
- **Autodesk Fusion 360 Integrated CAD/CAM/CAE** (Autodesk Inc.),
- **Material Science: 10 Things Every Engineer Should Know** (University of California, Davis, CA),
- **Digital Manufacturing and Design** (State University of New York),
- **DFMEA Training** (LTTS Genesis Program)
- **Programming for Everybody (Getting Started with Python)** (University of Michigan).
- **Introduction to Programming with MATLAB** (Vanderbilt University)

PROJECTS

- Worked in a rocketry team **thrustMIT** (India's top student rocketry team) and was a part of 2 rockets: Project Vyom and Project Arya (both launched from SpacePort America, New Mexico, USA in 2019 and 2018 re during SA Cup by ESRA - Experimental Sounding Rocket Association). as a senior Structures and Composites Member.

Aug 2017 – Sep 2020	Senior Structures Member
Manipal, Karnataka	thrustMIT

- Worked on mechanical structural design in aerospace components and assemblies. Won the Spot Award for Design for our rocket "Project Arya" at SA Cup 2019. Was responsible for the complete In-workshop manufacturing of rocket by carbon fibre hand layup with aerospace grade resin. Was also responsible for the complete structural design of the body of the rocket.
- **Patent (applied) for Ejection system – Application number – 201941044944.**
- Worked on a project of developing a Plain Plug Gauge in **Bharat Heavy Electricals Limited (BHEL)**, Hyderabad. Also learnt about the theory as well as various manufacturing processes of gas and steam turbines at BHEL Hyderabad.
- Experience in design and simulation of **Total Knee Replacement Surgery Implants** (Total Knee Arthroplasty). Paper to be published in 2023.

SKILLS

Software Tools: CREO Parametric 4.0, Windchill (PDM), SOLIDWORKS, Autodesk Inventor, Autodesk Fusion360, CATIA v4/v5/v6, Enovia (PDM), 3DEXperience, Siemens NX Unigraphics (CAD), ANSYS Workbench (Static-Structural & Transient Thermal), Hypermesh, OpenRocket, SimScale (Static Structural) and Microsoft Office.

Coding languages: Basic knowledge of C++, JAVA, Python and Arduino.

EMPLOYMENT HISTORY

LARSEN & TOUBRO TECHNOLOGY SERVICES

Jan 2022 - Present	Engineer (Scania ODC)
Bangalore, Karnataka	CATIA Engineer in Scania

- Assist drafters in developing the structural design of products using drafting tools or computer-assisted design (CAD) or drafting equipment and software.
- Read and interpret blueprints, technical drawings, schematics, or computer-generated reports.
- Recommend design modifications to eliminate machine or system malfunctions.
- Conduct research that tests or analyses the feasibility, design, operation, or performance of equipment, components, or systems.
- Professional rendering of CAD models in CATIA.

Jan 2021 – Jan 2022	Associate Engineer (Carrier Transicold)
Chennai, Tamil Nadu	Mechanical Design in Carrier Transicold Container/Truck/Trailer Refrigeration systems.

- Concept development and design of container refrigeration system for PrimeLine products. Weight reduction project on PrimeLine One by redesign of the unit with better alternative material and less thickness. Redesign of components and assemblies in Truck/Trailer refrigeration products. Worked on Creo Illustrate and creation of training material for its usage in compatibility with Windchill PDM and Creo Parametric.
- Analysis of logs observed by Application Engineer during Field Testing. Identifying defects and creating solutions for issues in assembly and manufacturing.
- Redesign of components and assemblies in Truck/Trailer refrigeration products.
- Perform quality checks on deliverables.
- Identify opportunities or implement changes to improve products or reduce costs using knowledge of fabrication processes, tooling and production equipment, assembly methods, quality control standards, or product design, materials and parts.

Sep 2020 – Dec 2020	Intern
Vadodara, Gujarat	Mechanical Design Intern

- Training in GD&T, DFMEA, Design Standards and IP Rating, DFMA and CAD-CAM tools like SolidWorks and Creo Parametric. Shadow-project in HVAC refrigeration units.

THRUSTMIT, MANIPAL INSTITUTE OF TECHNOLOGY

ACHIEVEMENTS

- ✓ Won the Spot Award for design and as Project Leader in Spaceport America Cup 2019 (an Experimental Sounding Rocket Association (ESRA) competition).
- ✓ Volunteer, TechTatva '16 (Official technical festival of Manipal Institute of Technology).
- ✓ Volunteer, Revels '16 (Official non-technical festival of Manipal Institute of Technology).
- ✓ Won a gold medal for Mangalore to Manipal Mega Marathon conducted by Manipal Academy of Higher Education, Manipal