



ANANDHU PRASAD

To utilise and enhance my professional skills, capabilities and knowledge in an organization which recognises the value of hardwork

EDUCATION

- **Master's certification program in CAD** | March 2023 – Present
Skill-Lync
- **B.Tech (Honours) in Mechanical Engineering** | Aug 2017 - Jul 2021
APJ Abdul Kalam Technological University, Kerala, India
CGPA – **8.4**
- **All India Senior School Certificate Examination** | Jun 2016 - Mar 2017
Jawahar Navodaya Vidyalaya, Pathanamthitta, Kerala
Percentage – **91.4%**
- **All India Secondary School Examination** | Jun 2014 – Mar 2015
Jawahar Navodaya Vidyalaya, Pathanamthitta, Kerala
CGPA -**10**

WORK EXPERIENCE

➤ Graduate Apprentice in Mechanical Engineering

VIKRAM SARABHAI SPACE CENTRE-ISRO, Trivandrum

March 2022 – March 2023

Member of Structural Analysis Team, Space Transportation System.

Involved in activities related to various Launch Vehicle Programs (PSLV / GSLV Hardware) such as:

- ✓ Clearance of light alloy structures for flights- PSLV/GSLV – ensuring adequate margins.
- ✓ 3D modeling of structural components such as Isogrid Panel (Heat Shield), brackets, piston-cylinder assembly, lattice structures etc. using **Solidworks**.
- ✓ 2D drafting of parts to visualize various snags, tolerance bands and to conceive salvage schemes **AutoCAD**.
- ✓ Static, buckling and modal analysis of components such as Payload Adaptor Interface Ring, Isogrid Panel salvage schemes for rib crack, Piston-Cylinder Transition Beam assembly etc. using **Ansys Workbench**
- ✓ **Calculations**: of various design parameters such as tolerance bands, margin of safety, moment of inertia, stresses, forces etc.
- ✓ **Fabrication deviations and salvages**: Preparation of salvage schemes for various snags reported by vendors while manufacturing.
- ✓ Documentation and report generation using **MS Office Tools**.

Major works involved:

- ✓ **Isogrid Panel- salvage scheme** development for rib crack
- ✓ **Isogrid Panel design modification**
- ✓ Design and analysis of **lattice core sandwich plates**
- ✓ Analysis of **Piston – Cylinder Assembly**.
- ✓ Buckling analysis of **Payload Interface Adaptor Ring**

CONTACT INFO

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TECHNICAL SKILLS

- AUTOCAD
- SOLIDWORKS
- CATIA V5
- NX CAD
- ANSYS WORKBENCH
- GD&T
- C++ PROGRAMMING
- MS OFFICE

SKILLS

- INTERPERSONAL SKILLS
- COMMUNICATION
- TEAM WORK
- MULTI TASKING
- ADAPTABILITY
- LEADERSHIP

LANGUAGES

- ENGLISH
- MALAYALAM
- HINDI

INTERESTS

- PUZZLE SOLVING
- CRICKET
- MUSIC

INTERNSHIPS

➤ Skill-Lync Internship (Online)

August 2023 – October 2023

Involved in activities related to two projects which are:

1. Automotive Hood Design

Designed the inner panel and outer panel of a car hood, taking account on all design considerations such as embosses, mastic points, cutouts, latch and striker placements, etc. using a given Class A surface and master section. Software used – **NX CAD**

2. Automotive Roof Design

Designed the complete car roof assembly including the roof panel, front header, rear header, center roof rail and bow roofs from a given Class A surface using **NX CAD**. Design considerations such as heat distortion criteria and snow load criteria were also checked.

➤ Graduate Internship

Harbour Engineering Department (Govt. Of Kerala)

Electrical Section, Mechanical Sub Section, Trivandrum

April 2023 – Till Date

Involved in activities related to various ongoing activities at Mechanical section of Harbour Engineering Department which include:

- ✓ Supervision of various ongoing works such as installation of ice plant at Neendakara Fishing harbour, installation of fire fighting system at Vizhinjam Community Health Centre, etc.
- ✓ Up keeping of files related to all vehicles and generators at Chief Engineer's Office, Harbour Engineering Department.
- ✓ Preparation of bills for different works/ purchases.

PAPERS PRESENTED

- Paper Title: **Assessment of 3D Printable Lattice Core Sandwich Plates**
Conference: **First International Conference on Advancements in Materials, Manufacturing and Automation (AMMA -2023)**

COURSES/ TRAININGS

- **Automotive Plastic Design Using CATIA V5**
Skill Lync
- **Automotive Sheet Metal Design Using Siemens NX CAD**
Skill Lync
- **Automotive Wiring Harness Using CATIA V5**
Skill Lync
- **Product Design and Manufacturing**
IIT Kanpur (NPTEL Online Course)
- **Fundamentals of Manufacturing Processes**
IIT Roorkee (NPTEL Online Course)

REFERENCE

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