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# Manisha Aryal

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## EXPERIENCE

### **Hyundai Automobiles, Kupandole**— *Service Advisor*

March 2022 – June 2022

- Diagnose the vehicles for the problem and assign technicians to fix those problems.
- Deal with customers, write job cards, and call customers to pick up the vehicle.

### **Entegra Pvt. Ltd, Baneshwor** — *Content Writer*

June 2021 – November 2021

- Read the engineering project thesis done by the clients and write the career episodes of their projects.

## ENGINEERING RESEARCH EXPERIENCE

### **Research Methodology Training Program** — *Participant*

20 June 2022–24 June 2022

- Training on how to read research papers, identify research gaps, and write the research papers.
- Learned about IMRAD technique in research paper writing.

### **Design and Analysis of Electric Vehicle chassis using FEM.** —*Final year project*

- Utilized Prismatic Beam theory to determine the type of beam for the chassis frame.
- Material selection done using Ashby chart.
- Structural analysis of the chassis frame is done using finite element method utilizing ANSYS Mechanical Solver.

## EDUCATION

### **Pulchowk Campus, Lalitpur** — *Bachelors in Mechanical Engineering*

November 2018 – April 2023 (Graduating score: 80.83%)

- Mechanical engineering general courses like Engineering Mechanics, Strength of materials, Mechanics of Solids, Material Science, Manufacturing, Fluid Mechanics and Machines, Machine Design, Theory of Machines and Mechanisms, Basic Thermodynamics and Applied Thermodynamics, Heat Transfer, Finite Element Method.
- Majors like operation research, Advanced Mechanical Design, and System Design and Simulation

### **Tilottama High School, Rupandehi – 2 years after class 10**

2016 – 2018 (GPA: 3.69)

- Majored in Science, and studied Mathematics, Physics, and Chemistry.

## **PROJECTS**

### **Trekking Baton– 2019**

- A ready to manufacture industrial product design of trekking baton with other features like torch, mobile charger, electrocutor, and trek stick.
- Designed, fabricated and displayed in the Mechanical Engineering Expo.

### **Water Treatment Plant – 2020**

- Small working model of a water treatment plant was designed and displayed in the Mechanical Engineering Expo and got the best design award.
- The prototype included all the essential components of a water treatment plant like coagulator, flocculator, sedimentation tank, and filter.

### **Mask Shredder – 2021**

- A 3D model of the mask shredder was prepared using SolidWorks, as a participant in a CAD design competition.

## **SKILLS**

SolidWorks, AutoCAD, ANSYS, Finite Element Method, Latex, Microsoft office packages, C Programming language, Python, Matlab, web designing (only fundamentals), Adobe Photoshop, Illustrator, and Premiere Pro.

## **AWARDS**

- Winner of BE Design competition 2020 in Pulchowk campus for the design of Water Treatment Plant.