

Sandesh Paudel

Kathmandu, Nepal

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OBJECTIVE

Passionate automobile engineer dedicated to advancing vehicle performance and safety with innovative technologies. Seeking to apply collaborative skills and a strong sense of responsibility to drive design and engineering advancements, contributing expertise to an ambitious team.

EDUCATION

Paschimanchal Campus, Institute of Engineering(TU) 2018 - 2023

Bachelors of Automobile Engineering

Kathmandu Model Secondary School(KMC) 2016 - 2018

Physics , Chemistry , Mathematics & Computer Science

Siddhartha Vanasthali Institute (SVI) 2016

School Leaving Certificate

WORK EXPERIENCE

Automotive Engineering-Intern

Balaju Auto Work (BAW), Mahindra Service Centre April 2023 - July 2023

- Conducted vehicle servicing and inspections, utilizing diagnostic scanners for issue identification.
- Managed customer interactions, handled job cards, and ensured accurate documentation.
- Participated in Pre-Delivery Inspections (PDI) and received training on Bharat Stage pollution standards.
- Acquired knowledge of insurance procedures and persistently resolved diverse vehicle problems for customers.

Service Engineering-Trainee

May 2024 - August 2024

IME Motors, Ashok Leyland

- Conducted a door-to-door service camp, providing customer service and technical support for vehicle maintenance.
- Performed pre-delivery inspections (PDI)
- Assisted with insurance and warranty-related tasks by addressing coverage inquiries and processing claims.
- Gained hands-on experience in the parts strengthening technical troubleshooting skills.

PROJECT & THESIS

Estimation of heat loss from lateral faces of 125cc bike engine body.

April 2022 - May 2023

- *Final Year Research Project (By a Team of 5)*
- **Heat Utilization for Enhanced Efficiency:** Researched and implemented strategies to harness wasted heat from lateral faces of a 125cc bike engine body. By effectively utilizing this heat, the study aimed to boost engine efficiency, minimize heat loss, and consequently enhance overall performance
- **Experimental Data Analysis:** Conducted extensive experimentation, utilizing temperature sensors and controllers to analyze engine body temperatures under various road conditions (10 Km/hr, 20 Km/hr, and 25 Km/hr). This analysis provided crucial insights into optimal working conditions for the engine, specifically noting significant efficiency gains at 10 km/hr on slope roads.
- **Fuel Consumption and Heat Loss Correlation:** Correlated experimental data with fuel consumption rates and heat loss at different speeds (10 km/hr to 25 km/hr in gear 1). The findings indicated a direct relationship between increased speed and heightened fuel consumption and heat loss, emphasizing the importance of choosing an optimal speed for efficiency.
- **Recommendations for Optimal Engine Operation:** Based on conclusive data analysis, provided practical recommendations advocating the maintenance of engine body temperature through water circulation to prevent overheating. Highlighted the significance of riding at 10 km/hr in slope road conditions as the optimal choice for engine efficiency, thereby reducing fuel consumption and heat loss.

SKILLS

Computer Skills:

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|--------------|-----------|---------|----------|-----------|---|
| - SOLIDWORKS | - AutoCAD | - ANSYS | - Carsim | - MS WORD | - |
| PowerPoint | -Excel | | | | |

Mechanical Skills:

- Proficient in welding and operating welding machines.
- Skilled in drilling, using hand grinders, and operating a lathe machine.
- Experienced with precision instruments like micrometers, vernier calipers, hydrometers, tachometers, dial gauges, and multimeters.
- Proficient in battery installation and charging
- Capable of engine assembly and disassembly for maintenance and repairs.