



**GAURAB NEUPANE**

Sundar haraicha-10, Biratchowk, Morang,

Province no. 1, Nepal

Ph: +9779849153753

E-mail: [neupanegaurab6066@gmail.com](mailto:neupanegaurab6066@gmail.com)



## OBJECTIVE

To be able to emphasize at my work with best of my efforts in achieving the organizational goal through my academic, research work & technical abilities.



## EDUCATION

DEGREE/ COURSE	UNIVERSITY/SCHOOL	BOARD	YEAR OF PASSING	PERCENTAGE/ CGPA
B. Tech. (Mechanical Engineering)	SRM Institute of science and technology, Chennai, India	SRMIST	2019	88% / 8.40
Class 12 <sup>th</sup> (Science)	Sukuna Higher Secondary School	HSEB Nepal	2014	76.9%
Class 10 <sup>th</sup>	The Rising English boarding School	SLC Nepal	2012	71.75%



## EXPERIENCE

### **Mechanical Engineer | Hama Iron and Steels Pvt. Ltd, Simara, Nepal**

13/02/2020 – Present (15 months)

- Production/Maintenance/Quality in TMT rolling mill
- Electrical machines, Drives and Industrial automation
- SCADA operation
- 2D drafting of rolling mill stands and 3D modeling of components

### **Internship | Jagadamba Engineering Pvt. Ltd, Kathmandu, Nepal**

09/06/2018 – 09/07/2018

- Assembly and repairing of automotive components.



## SKILLS

- AUTOCAD 2D Design software
- SOLIDWORKS
- ANSYS
- SCADA
- MS Office

- Technical Report writing skills



## ACADEMIC PROJECTS

1. Design, Fabrication and Experimental study on the performance of biomass based micro-gasifier cooking stove for rural applications.

(Major project, July 2019 – November 2019, Team size = 1 member)

- A new model of top lit-updraft micro-gasifier cook stove (Eco-chulo) was designed and fabricated using Mild steel. The people from rural areas require biomass cookstove with higher efficiency and lower indoor emissions, the requirement was effectively met by Eco-chulo.

2. Study of the Performance and emission characteristics of SI Engine using fuel additive blends.

(Minor project -II, Jan 2019 – April 2019, Team size = 2 member)

- Isopropyl acetate and Acetone fuel additives are blended with gasoline which improved the brake thermal efficiency and reduced the BSFC & exhaust emissions.

3. Molecular sieve-based dehumidification chamber for an indirect type solar dryer.

(Minor project -I, July 2018 – Nov 2018, Team size = 4 member)

- Designed the solar collector and dehumidification chamber, fabricated using the plywood material. Forced convection & forced convection with recirculation were two methods used in this project. The dryer efficiency was increased on recirculation of air into the dehumidification chamber.

4. Design and Fabrication of V2 Pneumatic Engine.

(Automation Lab Project, March 2018 – June 2018, Team size = 5 member)

- Compressed air is used as energy, used to displace the pistons whose cylinders are placed in V shape. This Engine uses limit switches to sense the extension and retraction of two double acting cylinders used for converting reciprocating motion to rotational motion operated by two both solenoid Directional Control Valves.



## SCHOLASTIC ACHIEVEMENTS

- Certified Associate level Solidworks Mechanical Design.
- Participated in Dassault System Solidworks nationwide Product design Contest
- Best Major project Poster presentation award.
- Full Ride Scholarship under Nepal Aid Fund scheme by Embassy of India, Kathmandu, Nepal



## PUBLICATIONS

- Gaurab Neupane “**Low Enriched Uranium based Nuclear Rocket Propulsion Technology: Mars Exploration Mission**”. International Journal of Research and Engineering, [S.I], Vol.6, No.1, P. 569-574, Jan. 2019. ISSN 2348-7860.

- Gaurab Neupane, T. Lakshmanan, U. Omsaktivel “**Performance evaluation of newly developed micro-gasifier cook stove using locally available venteak wood as biomass fuel**” International journal of Ambient Energy, Taylor & Francis [ **Under Review** ]
- Gaurab Neupane, Joji Jonshon, Bhupesh Gupta, Oshi Mohammad, Pradeep Mandal “**Recirculation type solar food dryer for high humid regions using molecular sieve as dehumidifier**” International journal of Ambient Energy, Taylor & Francis [ **Under Review** ]
- Gaurab Neupane, Oshi Mohammad, Prem Subramaniam, T. Lakshmanan, “**Effect of Isopropyl acetate and Acetone additive blends to the gasoline in the performance and emissions of SI engine**” International journal of Ambient Energy, Taylor & Francis [ **Under Review** ]



## LANGUAGES

- Nepali (Native or Bilingual proficiency)
- English (Professional working proficiency)
- Hindi (Elementary proficiency)



## HOBBIES

- Research
- Music
- Table Tennis
- Singing

I do hereby declare that the above particulars of facts and information stated are true, correct and complete to the best of my belief and knowledge.