

Resham Adhikari Thapa

Mechanical Engineer



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Ambitious, dedicated, and disciplined mechanical engineer with full of enthusiasm who uses a proactive approach to overcome problems. A compassionate team leader as well as a player who encourages personal and professional growth for all to succeed. A consensus builder with a straightforward and outspoken personality.



Work History

2019-09 to 2019-11
3 months

Mechanical Engineer Intern

Bottlers Nepal Limited, Kathmandu, Nepal

- Modeled and recommended gas welding machine handling trolley for safe and easy handling of the welding machine during repair and maintenance.
- Assisted technical personnel on new lubrication line installment along the RGB conveyor belt.
- Facilitated spare parts management to assist system upgrade to Systems Applications and Products (SAP).
- Contributed to the annual maintenance and technology upgrade program.
- Instructed 4 tours and field visits to high school students.

2018-01 to 2018-01
7 days

Workshop Facilitator

Read Nepal, Kathmandu, Nepal

- Worked as Workshop Facilitator as well as Nepali/English language translator on a one-week workshop organized by ROTA (Reach Out To Asia) foundation in Bardiya district, Nepal.
- Ensured smooth and efficient communication between Nepali participants and volunteers from Qatar University.
- Facilitated the workshop by providing proper support, feedback, and recommendations on the workshop as well as cultural exchange program.



Education

2016-11 to 2021-03

Bachelor's in Mechanical Engineering

Pulchowk Campus, Institute of Engineering, TU, Lalitpur, Nepal

2014-07 to 2016-07

Higher Secondary Education: Science (82.4%)

Kathmandu Model Higher Secondary School, Kathmandu, Nepal

2010-01 to 2014-04

School Leaving Certificate (89%)

Manasalu Public Higher Secondary School, Kathmandu, Nepal



Projects

Design and Development of Turgo Turbine Runner for Micro-Hydro Applications (CFD)

- Modelled a blade on SolidWorks software and meshing the geometry on Pointwise software.
- Used Computational Fluid Dynamics (CFD) software ANSYS CFX for torque calculation and flow visualization.
- Performed design optimization and iterations to increase the efficiency of the runner.



Accomplishments

- Tribhuvan University Merit Scholarship: to pursue B.Eng (Mechanical) in Institute of Engineering, Pulchowk Campus.
- Golden Jubilee Scholarship 2017-18 by Indian Government for pursuit of Under Graduate Course in B.Eng. in Nepal.
- Selected candidate to pursue Civil Engineering in School of Engineering, Kathmandu University by securing 1102 CBT-Score in KUCAT (Kathmandu University Common Admission Test).



Skills and Certifications

- MicroMasters in Supply chain Management by MIT (Massachusetts Institute of Technology) on EdX.
- Excel Skills for Business: Advanced, an online non-credit course authorized by Macquarie University and offered through Coursera.
- Introduction to Data Analytics for Business, an online non-credit course authorized by University of Colorado Boulder and offered through Coursera.
- Business Communication, a course of study offered by RITx, an online learning initiative of Rochester Institute of Technology.



Software

- SOLIDWORKS
- AUTOCAD
- MATLAB
- ANSYS
- PYTHON
- Microsoft Office (Word, Excel, and PowerPoint, Power BI)



Leadership and Activities

2019-01 to 2019-12
12 months

Vice President

Leo Club of Aarambha Deurali, Kathmandu, Nepal

- Organized an awareness program at Swayambhunath stupa on COVID 19 and distributed masks to the participants.
- Organized blood donation program during a global pandemic to ensure availability of blood in blood banks all over Kathmandu.
- Organized and executed cloth and food distributing programs for the poor to fight hunger and cold.

2018-11 to 2019-01
3 Months

Event Coordinator

Society of Mechanical Engineering Students (SOMES)

- Facilitated Nepal Drone Racing League (NDRL) by providing logistics and human resources.
- Organized Robo-wars, A competition between manual robots on a ring.
- Coordinated with multiple organizations and participants for carrying out a successful event.

2017-07 to 2018-06
11 months

Secretary

Society of Mechanical Engineering Students (SOMES)

- Arranged meetings, prepare agendas, take notes and prepare minutes after every meeting.
- Facilitated sound decision-making by providing valuable inputs to the president (SOMES).
- Contributed to successful organization of 8th national mechanical engineering exhibition.