

Amit Hitang

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PROFILE

I am an aspiring individual who is eager to work and learn in challenging domains. With a strong academic background in Mechanical engineering and experience gained from various minor and major projects, I have developed an interdisciplinary approach to problem-solving. My main areas of interest are Solid mechanics, Finite Element Method (FEM), Fluid Mechanics, and Thermal Sciences. I am committed to pursuing a career as an expert Computational Mechanics Engineer, utilizing my knowledge and skills to develop innovative solutions to complex engineering problems.

EDUCATION

Bachelor of Engineering in Mechanical Engineering
Pulchowk Campus, IOE, TU

11/2018 – 03/2023
Lalitpur, Nepal

- Completed a comprehensive curriculum covering a wide range of topics in mechanical engineering, including Solid Mechanics, Thermodynamics, Fluid Mechanics, Heat Transfer, Control Systems, Manufacturing Processes, and Materials Science.
- Volunteered in NEAR Aerospace as an engineering intern for the duration of one month in developing solid fuel rockets.
- Completed Industrial training in the Heavy Equipment Division (HED) under the Department of Roads, Kathmandu for the duration of one month.
- Participated in five days research methodologies training program organized by the Centre for Energy Studies (CES), IOE, TU.

PROJECTS

Mini projects

- Fabricated a manual Cricket Bowling Machine (CBM) as a group project in Mechtrix 2020.
- Performed comparative study of bending characteristics of PLA material with different topologies using a three-point bending test.
- Designed and optimized a Francis turbine runner for 50m head and 33.33 m³/s flow rate based on the Bovet method.

Major Project

Successfully defended the final year group project titled: Assessing the impact of cavitation models on the performance of Motorboat propellers: A numerical analysis.

SKILLS

- CFD, FEM, 3D modeling, MATLAB.
- Additive manufacturing, Vibration, Fluid dynamics, Solid mechanics, Heat and mass transfer.

LANGUAGES

- Nepali, Hindi, English

AWARDS

Student competitions:

- First runner-up in MechTRIX 2020 BE design competition.
- Won an online design marathon competition organized by Beyond Apogee where Thrust Vector Control(TVC) algorithm and mechanism were designed for a model rocket.

REFERENCES

Asst. Prof. Laxman Motra, Deputy Head of Department, Department of Mechanical Engineering, Pulchowk Campus
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