Anurag Karki

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Adaptable mechanical engineering student with a keen interest in computational fluid dynamics. Worked as mechanical engineer in various research projects.

Education

2017-2022

Bachelor / Pulchowk Campus, IOE

Bachelor of Mechanical Engineering from Pulchowk Campus, Tribhuvan University (73.47%)

Module includes:

- Finite element method
- Fluid mechanics
- Mechanical design and simulation
- Operational Research
- Heat transfer
- Control system
- Computer Aided Design

Final Year Thesis: "Optimization of Eagle-Ray Blended Wing Body Vehicle and Testing of Data Acquisition and Decision Support Mechanism"

Work Experience

3 months

Internship / Prokura Innovations

Worked as a mechanical engineering intern for the design and fabrication of VTOL (Vertical Take-Off and Landing) for last-mile delivery of medicine and blood.

2022-2023

Mechanical Engineer /IIEC, Pulchowk Campus

Worked as a mechanical engineer at the Incubation, Innovation, and Entrepreneurship Center (IIEC) at Pulchowk Campus. Completed tasks include

- Design and prototyping UAV
- Fabrication of BWB UAV
- Design and simulation of battery of fixed-wing

Skills

- AutoCAD and Solidworks for 3 modelling
- ANSYS and SU2 for CFD simulation
- SU2 for Optimization
- Python
- ROS2

Publication

- A. Karki, H. R. Pandeya, S. Bhattarai, A. Karn, and A. Sarraf. Aerodynamic shape optimization of blended wing body planform. *IOE Graduate Conference*. 2023