



About Me

Driven undergraduate student in Aeronautical Engineering hopeful to obtain admission in IIT Kharagpur's Master's program in Aerospace Engineering with specialization on Dynamics and Control.

Education

B. Eng.

Aug.2016 –

Aug.2020

Nitte Meenakshi

Institute of Technology

Aeronautical Engineering

CGPA: 9.01/10

Areas of Study: Stability and control, Aircraft Structures, Aerodynamics, Propulsion, Control systems, Flight Mechanics, Heat transfer, etc.

Bengaluru, India

High School

2014 – 2016

Kathmandu Model College

Major: Physics and Mathematics

Percentage: 80.5

Kathmandu, Nepal

Susan Basnet

Aug. 29, 1999

Solu Danda-12, Faika, Kapan, Kathmandu, Nepal

+977 9864576883

susanbasnet1999@gmail.com

susan-basnet11

Skillset

Operating system

Windows

Linux

Programming

Python (elementary)

Softwares

Matlab

LATEX

Ansys

Catia v5

Languages

Nepali



English



Hindi



Trainings & Projects

Aero-Structure Design Training

01 Aug.018 – 28 Feb.019

Aero Structure Design and Development

*Acquired hands-on experience with Aircraft Structural Components Design, Stringer and Airframe design, Parametric Model and Static Analysis of Structure, Aero-Structure Manufacturing process, Structural Inspection and Quality testing, which was conducted by **NITTE, Dassault Systems** together with **DCS**.*

Boot-camp

28 Jan. – 02 Feb.019

Boot-camp on aircraft wing design

*Attended the Bootcamp on Aircraft wing design, Design of Thin Walled Sections, Air Frames Stringer design, Manufacturing and Quality inspection from Center of Excellence for Aerospace, conducted by **NITTE** with **Dassault Systems**.*

VTOL project

Blended Wing Body with VTOL

Designed, Analyzed and Fabricated the BWB aircraft with Vertical takeoff and landing capabilities. Here, the complete model was designed in CATIA which was later simulated in Ansys before fabrication. Also the altitude hold controller was designed to track initial flight altitude.

Seminar & Workshop

27 Sept. – 03 Oct.018

Workshop: Recent Trends in Aeronautical Engineering

*Participated in five days Seminar and Workshop **Aerovision** on "Recent Trends in Aeronautical Engineering" organized by Falcon- Aeronautical Students' Association.*

Product Design and Development

01 May. – 30 July.018

Product Design and Development

*Acquired hands-on experience with Dassault Systems-3D experience platform, Sketcher Workbench, Basic Sketch-Based features, Transformation features, Surface Design Assembly and Sheet Metal Design from Product Design and Development Department organized by **NITTE, DCS** and **Dassault Systems**.*

Workshop

25 Feb. – 26 Feb.018

Aero-Modelling Workshop

Participated and completed level 5 of the Aero-Modelling workshop conducted by Happy Landing India (HLI) model sport.

Hobbies

- ✿ Football
- ✿ Space exploration
- ✿ Adventure
- ✿ Sketching

Research Interests

- ✿ Aerospace Dynamics and Control
- ✿ Fighter Jets- Aeronautics
- ✿ Space Missions and systems
- ✿ Vertical Takeoff and Landing

Internship

Internship
20 Dec. 2018 – 22
Jan. 2019

Advanced System Laboratory, DRDO

Hyderabad, India

Completed an intern project on Quality control measure and strategies for filament wound composite pressure vessel for space application

Advisor: Dr. N. Kishor Nath, DRDO [🔗](#)

Co-advisor: Dr. Sammernkant Behera, DRDO

On the Job Training
26 Nov. 2020 – 23
Feb. 2021

Prabhu Helicopter

Kathmandu, Nepal

Did an On the Job-Training under Engineering and Maintenance Department of the company as a Trainee Engineer.

Scholarships & Honors

Compex
Scholarship
2016 – 2020

Compex Scholarship [🔗](#)

Kathmandu, Nepal

Awarded a merit based scholarship for Bachelors of Engineering at Nitte Meenakshi Institute of Technology with full waiver of tuition plus hostel fees, by Indian Embassy Nepal.

Mahatma Gandhi
Scholarship
2014 – 2015

Mahatma Gandhi Scholarship [🔗](#)

Kathmandu, Nepal

Awarded a merit based scholarship to support higher secondary education at worth Rs. 12000 per year (for 2 years)

Leadership

Event organizer
Feb. 2019

UDAAN, Aeronautical Event at NITTE

Bengaluru, India

organized the water rocket competition in the department event **UDAAN**.

Nepal Scouts
2012 – 2014

Occidental Public School

Kathmandu, Nepal

- boys troop leader from the school
- led the troop during several trekking and camping

Membership

NEC
Feb. 2021

Nepal Engineering Council

Nepal