



# 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 ● ● ● ● ●

## 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

Bengaluru, India

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

High School  
2014 – 2016

**Kathmandu Model College**   
**Major: Physics and Mathematics**  
Percentage: 80.5

Kathmandu, Nepal

## 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	<b>Advanced System Laboratory, DRDO</b> 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. Sammerkant Behera, DRDO	Hyderabad, India
On the Job Training 26 Nov. 2020 – 23 Feb. 2021	<b>Prabhu Helicopter</b> Did an On the Job-Training under Engineering and Maintenance Department of the company as a Trainee Engineer.	Kathmnadu, Nepal

## Scholarships & Honors

Compex Scholarship 2016 – 2020	<b>Compex Scholarship</b> 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.	Kathmandu, Nepal
Mahatma Gandhi Scholarship 2014 – 2015	<b>Mahatma Gandhi Scholarship</b> Awarded a merit based scholarship to support higher secondary education at worth Rs. 12000 per year (for 2 years)	Kathmandu, Nepal

## Leadership

Event organizer Feb. 2019	<b>UDAAN, Aeronautical Event at NITTE</b> organized the water rocket competition in the department event <b>UDAAN</b> .	Bengaluru, India
Nepal Scouts 2012 – 2014	<b>Occidental Public School</b> <ul style="list-style-type: none"><li>boys troop leader from the school</li><li>led the troop during several trekking and camping</li></ul>	Kathmandu, Nepal

## Membership

NEC Feb. 2021	<b>Nepal Engineering Council</b>	Nepal
------------------	----------------------------------	-------