

SUMAN SUBEDI

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EDUCATION

Master of Science Aerospace Technische Universitaet Muenchen Arcisstr. 21, 80333 Muenchen, Germany.	Oct 2019 - Present
Bachelor of Mechanical Engineering Tribhuvan University Institute of Engineering, Pulchowk Campus, Lalitpur, Nepal. Aggregate Percentage 79.15%	Nov 2013 - Sept 2017
Higher Secondary Education in Science, HSEB, Class XI and XII Sagarmatha Higher Secondary School, Pokhara, Nepal. Aggregate Percentage 81.40%	Aug 2010 - June 2012
School Leaving Certificate, NEB, Class X Motherland Higher Secondary School, Pokhara, Nepal. Aggregate Percentage 84.75%	June 2010

SKILLS AND INTERESTS

Skills	Matlab, Basic Simulink, Intermediate C++, Basic Python
Interests	Aircraft Dynamics, Control Theory and Optimization
Language Skills	Nepali(<i>Mothertongue</i>), English(<i>Fluent</i>), German(<i>Intermediate</i>)
Soft Skills	Fluent, CatiaV5, Solidworks, LaTeX, MS Office Tools, Adobe Suite
OS	Linux and MS Windows.

BACHELOR THESIS

Modeling of Gas-Phase Combustion with Detailed Reaction Mechanism and Study of Combustion Test Cases

Sept 2016 - July 2017

Supervisor: Dr Sudip Bhattarai

- Developed closed homogeneous constant pressure reactor and adiabatic premixed flow reactor Iterative Newton Method Solvers in Matlab.
- Studied transient characteristics of premixed hydrogen-air combustion involving 9 species and 20 chemical reactions using the developed solvers.
- Carried out preliminary design of a one-dimensional combustor in terms of exit temperature control using with bypass air injection.

HONORS/SCHOLARSHIPS

- Full-scholarship for Bachelors - top 20th scholarship awardee among approx. 13,000 applicants. Oct 2013
- Outstanding academic award for Science 2011/12 - Sagarmatha Higher Secondary School Dec 2013

PUBLICATIONS

- A. Acharya, S. Pokharel, **S. Subedi**, S. Lama, B. Bomjan, S. Bhattarai, Modeling of Fuel- Air Combustion with Detailed Reaction Mechanism and Thermodynamics, International Conference on Physics of Space and Materials (ICPSM) 2017, Nepal. [Poster Presentation] Aug 2017

PROFESSIONAL EXPERIENCE

Development of Unmanned Aerial Vehicle (UAV) for delivery of medicine by airdrop to distant rural health posts from hub health centers

Jan 2018 - April 2019

Volunteer Engineer

National Innovation Center, Kathmandu, Nepal.

- Designed aerodynamic and structural aspects of fixed wing UAV for static/dynamic stability and structural integrity.
- Fabricated the fixed-wing UAV using foam, wood, and carbon fiber.
- Tested the UAV for manual and automatic flight.
- Wrote mission planning scripts for the UAV onboard companion computers.

Industrial Attachment

Oct 2016 - Nov 2016

Internship

Middle Marshyangdi Hydropower Station, Siundibar, Lamjung, Nepal.

- Involved in systematic inspection of Dam and Desander.
- Studied and reported the hydropower's mechanical and electrical systems' construction and working.
- Experienced organizational and managerial aspects and behavior of the plant.

Aircraft Model Development

Jan 2017 - April 2017

Volunteer

Aviation Museum, Sinamangal, Kathmandu, Nepal.

- Worked in a team for 3D modeling and development of a 1:6 scaled-down model of the Wright Flyer for the Museum.

POSITION OF RESPONSIBILITY

- Design Head of Seventh National Mechanical Engineering Exhibition organised by SOMES - Designed and controlled overall aesthetics and design-functionality of the event. Jan 2017 - Feb 2017
- Lead member of Post earthquake relief campaign (Nyano Initiative): fundraising and distribution of warm clothes to the sufferers of 2015 Nepal Earthquake residing in rural settlements of Nepal. Jan 2016

REFERENCE

Dr. Nawaraj Bhattarai, Head of Department

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Dr. Sudip Bhattarai, Assistant Professor

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