

Rupesh Shrestha

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Education

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| Dr. Ambedkar Institute of Technology
<i>B.E. in Mechanical Engineering</i> <ul style="list-style-type: none">GPA: 9.20/10 | Bangalore, India
Oct. 2021 |
| Viswa Niketan Secondary School <ul style="list-style-type: none">GPA: 79%Awards/Honors: Mahatma Gandhi Scholarship, Student of the Year 2016 - 2017, College Topper | Kathmandu, Nepal
June 2017 |
| Nilkantha Secondary School <ul style="list-style-type: none">GPA: 88.0%Awards/Honors: District Second Topper (public), Civil Service Employee's Children Scholarship | Dhading, Nepal
April 2017 |

Work Experience

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| Action Nepal
<i>Board of Directors</i> <ul style="list-style-type: none">Led projects like SUSAHARA II (USAID funded) in nutrition and CRISTA (Climate Resilient Infrastructure for Social Transformation and Adaptation) supported by AIT and the world bankLed four leadership volunteer camps through which projects on livelihood and DRR were conducted over 8 different villages in Dhading with the help of volunteers from different schools and organizations in Denmark | Dhading, Nepal
Jan. 2022 - Present |
| National Innovation Center
<i>Mechanical Design Engineer</i> <ul style="list-style-type: none">Researched, designed, simulated, and manufactured the first Bike Ambulance in NepalHanded it over to the Rotaract Club, Kathmandu to operate the Ambulance in Dang, Nepal | Kathmandu, Nepal
Jan. 2022 - Mar. 2022 |
| Entegra Sources
<i>Mechanical Design Engineer</i> <ul style="list-style-type: none">Designed and simulated mechanical parts in SolidWorks and CATIA meeting clients' needsSimulated each design in Ansys software including structural, thermal, and CFD analysis | Kathmandu, Nepal
July 2021 - Dec. 2021 |
| Princeton Smart Engineers
<i>HVAC Design Engineer</i> <ul style="list-style-type: none">Calculated Heat load using the manual method, E20 form, and HAP4.9Performed duct sizing, ducting design, and drafting using HAP, Duct sizer, and AutoCAD | Bangalore, India
July 2020 - Aug. 2020 |

Teaching Experience

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- | | |
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| Star Institute & Team Shireto
<i>SolidWorks Trainer</i> <ul style="list-style-type: none">Trained 200+ engineering students and graduates on using SolidWorks from basic to advancedTaught product design and its development process using real-world product examples | Kathmandu, Nepal
Mar. 2021 – Aug. 2022 |
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Leadership and Volunteering Experience

US Embassy Youth Council

Council Member

US Embassy, Nepal

Feb. 2023 - Present

- Engaged in leadership and networking activities making out to the top 55 out of 2700 applicants
- Cooperated in Civic Engagement Projects on business law, digital finance literacy, and entrepreneurship for the women involved in small and cottage industries in Kanchanpur

Aspire Institute, Harvard University

Finalist and Alumni

Aspire Leaders Program

Mar. 2022 – Aug. 2022

- Made to the top 200 of the Aspire Leaders Program 2022 cohort out of 7500+ applicants from 104 countries and engaged in immersive learning and leadership opportunities with other leaders
- **Won mini-grant** as a part of Extended Leadership Opportunities for academic development
- Contributed to the Program as an Ambassador to Nepal by engaging in online and in-person seminars to promote the program among hundreds of eligible Nepalese youth

Team Askra

Vice-Captain

Dr. Ambedkar Institute of Technology

Dec. 2017 - Jul. 2021

- Led various projects since the first year including the Go-Kart contest, Bharath Formula Carting
- Organized industrial visit programs and college events for the growth of students

Viswa Niketan Innovative Club

Founding President

Viswa Niketan Secondary School

Jul. 2016 – Aug. 2017

- Founded a science club of 15 members to create opportunities and provide a platform for students
- Organized and managed different extracurricular activities and Science Exhibition programs

Better Dhading Campaign

Core Member

Dhading, Nepal

Apr. 2014 – Sept. 2016

- Provided free lunch and water to 200+ children, & free water for a month to the earthquake victims
- Distributed relief materials including food items, clothes, and tents to the victims of the 2015 earthquake in different villages of Dhading and Chautara, Sindhupalchowk
- Conducted a "We Teach" campaign and donated stationary materials to 2500+ earthquake victims

Child Unity

Founding Secretary

Dhading, Nepal

Jan. 2012 – Jan. 2014

- Organized personality development programs, career guidance programs, and volunteering work
- Advocated for the rights of child clubs by helping several child clubs to ensure financial help that comes to them from the government body

Yuwalaya, UNICEF

Community Volunteer

Dhading, Nepal

Jun. 2015 – Aug. 2015

- Organized community workshops to educate the public on sanitation with the aid of UNICEF
- Conducted an awareness campaign among rural people in 5 village committees of the district and provided medicinal kits impacting the lives of 1000+ people including children and pregnant women

Specialization Courses

Post Graduate Program in CAD, SKILL-LYNC

Sept. 2020 - Present

Introduction to Additive Manufacturing, I GET IT, TATA Technologies

Dec. 2020

Plastic Part Design Series, I GET IT, TATA Technologies

Nov. 2020

CAD and Digital Manufacturing Specialization, Coursera

Sept. 2020 - Nov. 2020

Fundamentals of GD&T ASME Y14.5M-2009, I GET IT, TATA Technologies

Oct 2020

Skills

Software Packages:

SOLIDWORKS
CATIA V5
NX 12
Ansys
MATLAB

Other Skills:

Sketching
Communication
Leadership
Team working
Video Editing

Achievements

- First **CSWE** Certified (Certified SolidWorks Expert – Mechanical Design) in Nepal
- First SolidWorks Champion in Nepal

Seminar

Yenching Global Symposium 2022, China April 2022

- Represented Nepal as a delegate to the YGS 2022 organized by Yenching Academy of Peking University making it to the top 200 out of 9,000+ applicants
- Engaged in panel discussions and interactive sessions addressing both China's impact on the world and the influence that the world has on China based on globalization and internationalism

3DEXPERIENCE World 2020, Online Feb 2020

- Participated in the design conference by Dassault Systemes' SolidWorks software in the virtual as a VIP delegate
- Grabbed the opportunity to take the official professional and expert-level certification examinations of the design software, SolidWorks

Research Projects

Design and Manufacturing of Bike Ambulance

- Researched, designed, and simulated an attachable Bike Ambulance using SolidWorks and Ansys
- Manufactured the first-ever bike ambulance in Nepal in the National Innovation Center
- Handed it over to the Rotaract Club, Kathmandu to operate the Ambulance in Dang, Nepal

Turbocharger with the Application of Tesla Turbine

- Studied the possibility of using a Tesla Turbine in making a turbocharger for the final year project
- Designed and simulated a turbocharger with the application of the Tesla Turbine using SolidWorks and Ansys

Design of a 3D Printing filament Extruder machine to recycle plastic waste

- Studied and designed a 3d printing filament extruding machine in SolidWorks that uses recycled plastics as raw material
- Reached to zone final round of the National level Product design contest, AAKRUTI 2020

Project Portfolio: <https://skill-lync.com/profiles/rupesh-shrestha>

Website: <https://shrestharupesh.com>