Aditya Amatya | Mechanical Engineer

Budanilkantha, Kathmandu, Nepal, +9779860304474 | http://www.adityaamatya.com.np

PROFILE

An adaptable and responsible Mechanical Engineer, proficient in Multibody Simulation, FEA Analysis and CAD Modelling. Interested in Research and Development and Product Design through both Engineering and Reverse Engineering. Motorcycle enthusiast with a focus on optimizing motorcycle performance. Passionate about Engineering for greater good of Society.

EDUCATION

Nov 2015 - Sep 2019

Bachelor in Mechanical Engineering

Institute of Engineering, Pulchowk Campus, Lalitpur

Higher Secondary Education Board Examination

Kanchanjungha Higher Secondary School, Biratnagar

Nov 2015 - Sep 2019 **Bachelor in Mechanical Engineering**Institute of Engineering, Pulchowk Campus, Lalitpur

WORK EXPERIENCES

Aug 2022 - Present

CAE Engineer, Yatri Motorcycles, Kathmandu, Nepal

Involved in geometric benchmarking of motorcycle chassis, analyzing data and collaborating with design and development teams to optimize performance.

Performed Multibody Simulation of full motorcycle as well as of test rig using Altair's Motionview, analyzing and interpreting data to optimize vehicle dynamics and handling.

July 2022 ANSYS Trainer, SOMES, IOE Pulchowk Campus

Instructed in the '7 Days Workshop on ANSYS' organized by the Department of Mechanical Engineering at Pulchowk Campus, providing guidance and training to participants on ANSYS.

March 2020 – June 2022

Mechanical Design Engineer, Entegra Sources Pvt. Ltd., Kathmandu

Performed 3D modelling of various mechanical components, such as motorcycle helmets, automobile chassis, motorcycle swingarms, and equipment like cyclone separators, heat exchangers, and centrifugal pumps.

Conducted a wide range of analysis on diverse mechanical components, including structural, thermal, modal, harmonic, and CFD, ensuring accurate and precise results.

Dec 2018 Mechanical Internee, Kathmandu Milk Supply Scheme (DDC), Balaju, Kathmandu

Studied the existing engineering and management systems to identify areas for improvement and implement best practices in the design of the new conveyor system with a focus on space optimization.

2017 – 2018 Human Resource Manager, SOMES, IOE Pulchowk Campus

Organized National Mechanical Exhibition, Various Workshops, Trainings and Talk Programs.

Sep 2018 SolidWorks Trainer, SolidWorks Crash Course Training

Instructor in 10 days Training Workshop of "SolidWorks Crash Course" organized by Department of Mechanical Engineering, Pulchowk Campus

2017 – 2018 General Member, AIESEC Nepal

Organized different Youth Empowering Seminar, Global Village, Interacted on SDGs with different Foreign and Local Youths.

Design and Test of Search and Rescue Unmanned Aerial Vehicle Design and Flow Analysis of Forward Curved Centrifugal Impeller Design and Test of Buoyancy assisted Trash Cleaner Design and Test of Theo -Jansen Mechanism to replicate the humanoid movement Design and Test of Automatic Fire Extinguishing Robot. PUBLICATIONS Darlami, K., Amatya, A., Kunwar, B., Poudel, S., & Dhakal, U. (2020). "Design a Analysis of Twin-Vertical-Tailed Fixed-Wing Unmanned Aerial Vehicle". Journal Automation and Automobile Engineering, 5(3) AWARDS AND RECOGNITIONS	
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2018 Best Application Award (BE Mechanical Design Competition MechTRIX 8.0) Awarded for Buoyancy Assisted trash cleaner Project	
2016 Title Winner (BE Mechanical Design Competition MechTRIX 7.0)	
Awarded for Automatic fire Extinguishing Robot	
SKILL SET EXPERTISE —	
TECHNICAL	
2D and 3D Design and Modelling Good command over SolidWorks, Autodesk I and AutoCAD	nventor,
Multibody Simulation Deft in Altair Motionview	
Simulation Tools Good Command over ANSYS (Structural, Mo Harmonic, Fatigue, Thermal, Rigid Dynamics	
Mathematical Tools Familiar with MATLAB and Mathematica	
Programming Skills Intermediate in Python	
Kinematic Analysis Fluent in GIM and Linkage	
Aircraft Design and Analysis XFLR5	
Technical Report Writing Command over MS Package and Latex	
Fabrication and Machining Can Operate on Lathe, Milling Machine and o	other
Mechanical Machine and tools	
Front End Web Development Intermediate in HTML, CSS and JavaScript	_
MANAGERIAL Project Management Team work Time Management Excellent Communication Goal Oriented Problem Solving	on skills
LANGUAGES	.,.
English Fluent in English Speaking and Wi Nepali & Maithili Native Speaker	riting
Hindi Easily Comprehensible	
Japanese N4 and N5 Completed	
PARTICIPATIONS	
Apr 2019 Participant, National Youth Scientists Conference 2019	
Dec 2017 Participant, National Conference on Youth and Sustainable Development Goals	