ANAMIKA MALLA

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DUCATION	
Ph.D. Texas Tech University, Wind Science and Engineering	2022 – Presen
MSc Shanghai Jiao Tong University, Civil Engineering	2020
BE Tribhuvan University, Civil Engineering	2015
Research Experience2022 – Present	
Research Assistant, Texas Tech University, Lubbock, USA	2022– Presen
 Carrying out experimental simulations in WARD-type Tornado simulator to calculate the and translating tornado-like flows using Omni probe and 4-hole Cobra Probe with a data ac Performing numerical simulation using Computational Fluid Dynamics (CFD) of the effect of on low-rise buildings. 	equisition system.
Research Assistant, Shanghai Jiao Tong University, Shanghai China	2017 - 2020
 Performed parametric study of the effect of curvature radius and cant angle of winglet performance of H-type Vertical Axis Wind Turbine using CFD; optimum shape has 1 performance. 	s on the aerodynami
 Investigated wake-induced vibration interference of square cylinders. 	
UBLICATIONS AND CONFERENCES	
 Q. Chen, A. Malla, J. Kang, H. Zhang, X. Wu. (2024). Laboratory Study of Tornado-Like Loa Building Model. <u>https://simcenter.designsafe-ci.org/media/filer_public/c3/9c/c39ccaf6-0716-ad621328cde0/comp_symposiumposter_2024_chen.pdf</u> A. Malla, J. Zhang, X. Xiang, W. Hughes, H. Pham, A. Melaku. (2023). Mitigating Wind Loa by Aerodynamic Shape Modification: a CFD-based Comparative Study. DesignSafe CI. <u>https://doi.org/10.17603/ds2-0253-3916</u> Malla, A., Han,Z. and Zhou, D. (2020). Effect of the curvature radius of a winglet on the p Straight Blade Darrieus Wind Turbine ,IOP Conference Series: Earth and Environmental Sci 1315) Han, Z., Zhou, D., Malla, A.,& Bao, Y. (2018). Wake-induced vibration interference between and a 2-DOF downstream square cylinder at low Reynolds numbers. Ocean Engineering, 16 	4b36-9463- ds on Tall Buildings ower augmentation o ence (EES) (ISSN:1755 a fixed square cylinde
PROFESSIONAL EXPERIENCE	
Structural Engineer, Universals Geo-Spatial Solutions, Katmandu, Nepal	March 2020 - Aug 2022
Design and structural analysis of residential buildings.	
 Instructor: SAT, TOEFL and ILETS, KIEC Learning Institute, Kathmandu Nepal Prepared SAT (Math &English), TOEFL,IELTS course averaging 30 students per six weeks; C Civil Field Engineer, Nepal Youth Foundation, Katmandu, Nepal Rehabilitated "Fulchowki Ma Vi" middle school after April 2015 earthquake with Projects A Civil Engineer, CE Constructions Pvt. Ltd., Katmandu, Nepal Supervised site construction of commercial building with rainwater harvesting tanks and precycling tank, green roof, solar embedded roofs; Prepared estimation, billing and drawing Civil Engineer, ADM Carto Consult Pvt. Ltd., Katmandu, Nepal 	May -Aug 2012 Abroad US 2016-April 2012 athways, filtration &
 Created a digital database of all hydropower stations of Nepal using GIS for Dep Development, Government of Nepal. 	
WARDS AND HONORS	
Tau Beta Pi Engineering Honor Society	2023
Winner, 2023 NHERI COMPUTATIONAL ACADEMY	July 2023
Travel grant awarded from National Science Foundation (NSF)	July 2023
Chinese Scholarship Council – Type A	2017-2020
KILLS TECHNICAL	

OpenFoam, Salome, STAR-CCM+, UG-NX CAD, MATLAB, Python, Techplot, Origin, Autodesk AutoCAD, Etabs, ArcGIS. Languages English | Nepali | Hindi | Mandarin