SHISON MAHARJAN

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EDUCATION

M.Sc. Environmental Science and Natural Resources, *Kathmandu University* 2021

B.Sc. in Applied Physics, Kathmandu *University* 2016

WORK EXPERIENCE

WindPower Nepal Pvt. Ltd. (2021- present)

- Served as Field and Logistics Manager and Climate-Smart Agriculture (CSA) Expert for the **Green Finance Market Assessment in Nepal**, implemented by Ernst & Young LLP (EY) for IFC. Supported stakeholder mapping and engagement with government agencies, financial institutions, private sector actors, MSMEs, and sector associations. Provided technical and contextual insights on Nepal's policy, regulatory, and market landscape related to green finance, climate policy, and priority sectors. Coordinated and facilitated field visits, regional consultations, and high-level meetings, ensuring effective logistical management and stakeholder participation.

- Served as Energy Audit and Data Analysis Support, and Field and Logistics Manager for the project implemented by Prakriti Resources Centre. Contributed to energy assessments through systematic data collection and analysis using digital tools such as Kobo, Excel, and SPSS. Conducted GIS-based forest and carbon mapping, producing spatial outputs, visualizations, and analytical graphs to support evidence-based reporting. Assisted in the preparation of baseline studies and energy audit reports, while managing field coordination, logistics, and stakeholder engagement activities, including FGDs and KIIs with relevant institutions and community representatives.

- Served as Field and Logistics Manager for the GIZ Nepal project on **Facilitating the Waste-to-Energy (WtE) Study and the 3rd Exchange of SSTC DRE Nepal–Indonesia–Germany**. Managed and coordinated end-to-end logistical and operational arrangements for high-level bilateral and trilateral engagements, including invitations, agenda finalization, delegate confirmations, and coordination with MoEWRI and AEPC. Oversaw venue management, field visits (MHP and WtE sites), airport transfers, transportation, catering, seminar materials, and on-site event operations. Acted as the key liaison between Nepali and Indonesian delegates, hotels, local vendors, and stakeholders to ensure seamless implementation. Additionally, supported technical coordination with GIZ teams and provided photography and videography services to develop communication and visibility materials for publication and knowledge dissemination.

- Organizing four days residential Training of Trainers (ToT) on hydroponics farming supported by United Nations Development Programme (UNDP).
  Responsibilities: Providing practical training to the participants, procurement, management and administrative works.

- Installation of 21 hydroponics unit in collaboration with Youth Thinkers Society (YTS) in Chitwan to improve the livelihood of the marginalized community.
  Responsibility in this project was to setup, install, and provide technical analysis of the Systems.

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- Project management of commercial climate smart vertical farm (Mutha Agro Pvt. Ltd.) Responsibilities: Procurement, site preparation, installation and setup, technical analysis.

- Organizing training and workshop on hydroponics on regular basis.
  Responsibilities:
  Managing the participants, creating database and communication with participants.
  Provide training on hydroponics (online presentation and practical classes)

- Project lead in installation of hydroponic unit in ICIMOD Knowledge Park; ICIMOD/GIZ-GRAPE Project
  Responsibilities: Communication with client, procurement, installation and setup, technical analysis and overall management.

- Project Lead in "Water Efficient Fodder Production Technology to Enhance Livelihood of Climate Vulnerable Communities" supported by USAID at Jumla, Karnali.
  Responsibilities: Hydroponics expert, Proposal development, conducting workshops and trainings, deployment of technology, procurement, communication, report writing.

- Project Lead in "Building Climate Resilience through Aquaponics in Rural and Peri-Urban Areas of Nepal)" supported by ADPC.
  Responsibilities: Aquaponics expert, Proposal development, conducting workshops and trainings, deployment of technology, procurement, communication, report writing.

- Consultant in "Installation of Small Scale Aquaponics System in Durbar High School and Viswa Niketan Secondary School" under FutureFeed campaign led by the Rotaract Club of Kathmandu with support of WWF. Responsibilities: Aquaponics expert, conducting workshops and trainings, deployment of technology, procurement, report writing.

RELEVANT PART TIME EXPERIENCE

Teaching
Milestone Higher Secondary School (2016-2018)

- Enrolled as science coaching teacher for grade 8 and 9

*Bal Deeksha Sadan Higher Secondary School (*2017)

- Enrolled as coaching teacher (Science, C. Math & Opt. Math) for grade 8

Home Tutor (2016-present)

- Have been enrolling as a Home Tutor (Science, C. Math & Opt. Math) for grade 8, 9 and 10.
- Have enrolled as Home Tutor for grade 11 and 12 (Basic Mathematics and Physics)

Data Entry Specialist (2012-2018) *CloudFactory*

PUBLISHED PAPER

- Byrd, G. & Maharjan, Shison & Jha, Bibhuti & Gurung, Smriti. (2021). A Review of Soilless Agriculture in Nepal. World Applied Sciences Journal. 39. 69-83.10.5829/idosi.wasj.2021.69.83.

- Sharma, Rohin, Maharjan, Shison & Adhikari, Rajendra. (2017). First Principal Calculation of Lattice Constants for Generalised Quasirandom Structures of InGaN Alloy. International Journal of Science and Research (IJSR). 6. 6-391. 10.21275/ART20174558.

RESEARCH EXPERIENCE

Academic Projects

- Hydroponics Systems in Nepal: Status and Nutrient Solution Assessment
- Theoretical Calculation of Band Gap Energy of InGaN Alloy by Optimizing Lattice Parameter from Energy Minimization Process
- Simulation of 2D Ising model using Monte Carlo algorithm to study magnetic phase transition.
- Study of diffusion of CO2 by jet planes at Tribhuvan International Airport using Matlab.
- Measurement of Humidity using Hygrometer and interpretation of the result.
- Interpretation of surface-tension of fatty acids by capillary tube method.
- Design and Construction of "A Basic DC Power Supply".

SKILLS & ABILITIES

- Office Package
- C programming
- AutoCAD 2d and basic 3d
- MATLAB
- GIS
- Python (Modeling)
- R programming

DECLARATION

I undersigned state hereby that the above-mentioned statements truly represent me and my qualifications.