

CURRICULUM VITAE

PERSONAL DETAILS

Name: PARAS KARKI
Address: Basundhara-3, Kathmandu, Nepal
Phone: (Mob) +977 980-8757366
Gender: Male
Date of Birth: 18 June 1985
Marital Status: Married
Electronic Mail: tokarkiparas@gmail.com

EDUCATION

2012- 2014 MS by Research in Electrical Engineering "Modelling and Design of Grid Connected Solar PV Inverter", *Kathmandu University, Dhulikhel, Nepal*
2004-2008 Bachelor in Electrical and Electronics Engineering (Power and Control), *Kathmandu University, Dhulikhel, Nepal*

PROFESSIONAL EXPERIENCE

June 2015 – present

Technical Manager

Sun Farmer Nepal (www.sunfarmer.org), Lalitpur, Nepal

Sun Farmer is Canadian based solar company in Nepal providing solution in solar energy:

Main duties and responsibilities

- Create target customer list and Identify project leads
- Setup appointments with potential clients
- Work with the clients to develop projects and create a project pipeline
- Prepare and present Sun farmer product offerings
- Prepare a wide variety of Correspondence reports, papers and documents using computerized systems. Draft non-routine correspondence and responses, and ensure follow-up action
- Prepare project related proposals, reports conduct personal visits, correspondence and communication with government agencies, customs officers, partner companies and related stakeholders

Projects

- Bayalpata hospital 100kW Off-grid Solar PV system
- AJW Institute, 17.6kW Off-grid solar PV system
- Energy X monitoring device (<http://energyx.sunfarmer.org>)

November 2014 - April 2015

Electrical Engineer

Procons Engineers Pvt. Ltd., Lalitpur, Nepal

Procons Engineers Pvt. Ltd is a constant company providing engineering solution in field of electrical power system:

Main duties and responsibilities

- Support in design of electrical system of corporate building.
- Support in design of transmission line and substation of Renewable Energy System
- Provide electrical engineering expertise for the maintenance, repair, modification and replacement of electrical, electronic, controls and communication equipment
- Provide technical assistance and support to crews performing maintenance, troubleshooting, repair, modification or installation work on electric equipment and facilities.

- Document maintenance criteria, schedules and procedures for electric generating units and related equipment
- Frequent visit to the project sites.

Projects

- Wind solar hybrid system 1kW, Renewable energy lab, Kathmandu University
- Electrical design of Janakpur Airport
- Transmission line design Salagungi Hydro power

August 2012 – July 2014

Researcher- Electrical Engineering

Mini Grid Research, Department of Electrical and Electronics, Kathmandu University (www.ku.edu.np/ee), Dhulikhel, Nepal

This role includes research, design and development of mini grid by interconnection of micro/mini hydro plants enabling sharing of power.

Main duties and responsibilities

- Conduct research in mini grid as directed by the project leader
- Design and development of electronic load controller, induction generator controller and synchronizer unit at power electronic laboratory of Kathmandu University
- Setup, testing and performance analyzing of mini grid and its components at laboratory
- Submit reports (interim, travel, annual) on regular time interval

Project video: <https://www.youtube.com/watch?v=IBPuOGFEG1k>

August 2008 – July 2012

Research Assistant / Research Coordinator

Rural Integrated Development Services (RIDS) Nepal (www.rids-nepal.org), Imadol, Lalitpur, Nepal

RIDS-Nepal is a non-profit and non-government organization which is involved in renewable energy technologies (RETs) for rural development of Humla, far western region of Nepal.

Main duties and responsibilities

- To participate in the projects under direct supervision of project director
- Design and installation of Applied RETs in Humla
- Design, development, and lab prototype testing and monitoring of new power systems and equipment for RETs.
- Development of new improved software programs for sophisticated data monitoring devices for performance data monitoring of RETs; as well as interpreting and evaluating the test data for practical implementation.
- Research project data management, interpretation and presentation in graphical form
- To analyze the test data, resulting in concrete development and re-designing of the system

Projects

- Remote Monitoring of Applied RETs – www.rids-nepal.org/databank
- Micro hydro power plant at Kolsi
- Low Power Grid Connected solar PV system – pvnepal.supsi.ch
- PV-Wind hybrid System – www.rids-nepal.org/pv-wind-hybrid-system

PUBLICATIONS

- *“Improved Electronic Load Controller and Synchronizer Unit for Mini Grid Connection”*, **Paras Karki**, *Rojesh Dahal, Brijesh Adhikary, Ramesh K. Maskey*, ICDRET 2014, IEEE – www.ieee.org; Dhaka, Bangladesh, 29-31 May 2014.
- *“MATLAB/Simulink based Modeling and Simulation of Grid-connected Solar Photovoltaic System in Distribution Power Network”*, **P. Karki**, *B. Adhikary*, ICPS 2013 (International Conference on Power and Energy 2013), IEEE – www.ieee.org; Kathmandu, Nepal 28-30 October 2013.

- “Comparative Study of Grid-Tied Photovoltaic (PV) System in Kathmandu and Berlin Using PVsyst”, **P. Karki**, B. Adhikary, K. Sherpa, ICSET 2012, International Conference on Sustainable Energy Technologies 2012, IEEE – www.ieee.org; Kathmandu, Nepal, 24-27 September 2012.
<http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6357397>
- “Interconnection of Two Micro Hydro Units Forming a Mini-Grid System using Soft Connection”, B. Adikary, B. Ghimire, **P. Karki**; TENCON 2009 – 2009 IEEE Region 10 Conference, Institute of Electrical and Electronics Engineers (IEEE – www.ieee.org); International Convention & Exhibition Centre; Singapore, 23-26 November 2009.
http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=5396207

PROFESSIONAL MEMBERSHIP AND ACHIEVEMENTS

- Nepal Engineering Council, NEC (Membership No: 555 A Electrical and Electronics)
- Life time board member of RIDS-Nepal
- Executive Member, Society of Electrical & Electronics Engineering, SEEE, KU
- Graphics Designer of KU SEEE Magazine, “The Encipher 2007”
- Participation as exhibitor during project exhibition, KUPEX (2005)
- Working Member of “KU Robotics and Automation Club”

COMPUTER SKILLS AND COMPETENCES

- Proficient in Simulation and Electronics Software including: MATLAB/ Simulink, Direct Soft (PLC), NI MultiSim, PVsyst, PSCAD, WindSim, Eagle PCB and Microcontroller packages (AVR studio and Arduino).
- Proficient with Data Logging software including: National Instrument (NI) LABView, Dataloader and Hoboware
- Proficient in web and database based software: MYSQL, JAVA, Javascript, HTML, PHP, CSS etc.
- Proficient in Graphics, designing including: Adobe packages, Autodesk packages.
- Proficient in Microsoft Windows Operating System, Office and Related Software

LANGUAGES

Fluent in Nepali, Hindi and English

REFERENCES

Academic

Associate Professor Brijesh Adhikary,
Head of Department of Electrical and Electronics,
School of Engineering, Kathmandu University
Electronic Mail: brjesh@ku.edu.np
Phone: +9779841869660

Professional

Dr. Alex Zahnd
RIDS-Nepal Project Director (www.rids-nepal.org)
Visiting Professor Mech. Eng. Dept. Kathmandu University, NEPAL
Member of SATW (Swiss Academy of Engineering Sciences) www.satw.ch
Electronic Mail: azahnd@rids-nepal.org
Phone: +1-619-228-4403