ROSHAN PANTA

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SUMMARY

Hardworking, Dedicated, and Highly motivated senior technical professional, combined with leadership skills and extensive knowledge of Electrical Engineering and Industrial Automation domain. Having 4 years of rich experience to lead and execute all stages of Projects; starting from Pre-Project Engineering till final handover to customer and service.

EDUCATIONAL QUALIFICATION

BE-EEE (Electrical Engineering)	**Kathmandu Engineering college (T.U)**	2014-2018	63.5%
HSE (Science)	**Kathmandu Model College (HSEB)**	2010-2012	73.5%
SLC	**Barahi Ucha Madhyamik Vidyalaya (Nepal Government)**	2010	83.33%

PROFESSIONAL EXPERIENCE

2022-05 to Present	**Balaju School Of Engineering and Technology (CTEVT)**	• Industrial Automation Teacher and Instructor for Diploma in Mechatronics Engineering (Part Time)
2022-01 to Present	**Maxwell Engineering Pvt. Ltd**	• Electrical Automation Engineer (Full Time) • Developed functional design specifications for PLC, HMI/SCADA systems. • Created electrical and pneumatic drawings using AutoCAD. • Developed, analysed and reviewed PLC, HMI/SCADA programs, using functional design specifications and P&ID.
2018-10 to 2021-09	**Shree Swastik Consultancy and Training Center**	• Electrical Engineer • Schedule the work in accordance to the project milestone. • Ensuring all electrical contraction work complied with drawings and specifications • Performed/conducting inspections, testing and commissioning of low voltage electrical system.

SKILLS

- WINCC (RT ADVANCED), TIA Portal, Connected Component Work Bench, CX – Programmer, Eco Structure Machine Expert Basic, VIJEO Designer Basic, GX Works2
- AutoCAD, ETAP , MATLAB, DIALux
- C programming, C++, Python

TECHNICAL EXPERTISE

SIEMENS	• PLC-SIMATIC 1200 • HMI-SIMATIC BASIC PANEL MODEL: KTP400 BASIC • SCADA-WINCC (RT ADVANCED) • Communication Network-Ethernet • Projects- a. Hydraulic System b. Traffic Lights • TIA Portal
ALLEN BRADLEY	• PLC – Micro820 – Controller Family (2080-LC20-20QBB)-Catalogue • HMI – Panel view 800 Model: 2711R-T4T • Communication Network – Ethernet • Software: Connected Component Work Bench • Project – Pneumatic System (Reaming and Pinning)
OMRON	• PLC – CP1E (Series) • HMI – Model: NB-7WTW00B • Software – CX – Programmer (V 9.1) • Communication Network: Serial Port Communication RS – 232 • Projects: X-Y Co-ordinate Axis (**Stepper** Motor Operation)
SCHINEIDER	• PLC – M200 Logic Controller Model: TM200CE24T • HMI – VIJEO Designer Basic Model: HMIGJXU3512X(800x480) • Software – Eco Structure Machine Expert Basic • Communication Network – MODBUS • Projects – Conveyer Belt Operations 1. Using Timer and Counter 2. Using Variable Frequency Drive (VFD)

DELTA	• PLC – DVP20SX2 (Series) • HMI – MODEL: DOP – 107CV • Software – WPL Soft (PLC) DOPSOFT (HMI) • Communication Network – Serial Port Communication RS – 485 • Projects – <u>Servo System</u> 1.Forward and Reverse (180 &360 Degrees) 2.Star – Delta Starter
MITSUBISHI	• PLC – MELSEC FX 3S Model: FX3S – 30M • HMI – GRAPHIC OPERATION TERMINAL Model: GS2107-WTBD-N • Software – GX Works2 • Communication Network – Serial Port Communication RS - 485 • Projects – Pick and Drop

CERTIFICATIONS

PGDIA	**Post Graduate Diploma in Industrial Automation**	Ellen Technolabs Peenya ,Bangalore	August 2022 – October 2022

PROJECTS

Project Title	**PARALLEL OPERATION OF MHP Plants with ACVC – ELC AND D - ELC**
Team Size	4
Tools and Technology Used	MATLAB Simulation
Description	Project Simulation of Parallel Operation of two micro hydro power plants with AC voltage controller based ELC and Discrete – ELC using common D – ELC as an control strategy. The project outcome showed successful simulation of the model and objective was attained.

Project Title	**MATLAB Simulation on MPPT based isolated PV system with Bi-directional converter**
Team Size	4
Tools and Technology Used	MATLAB Simulation
Description	Simulation of the MPPT based stand-alone PV system with Bi-directional converter in MATLAB software was performed and was presented to the professors in Kathmandu Engineering College and set objectives were attained.