

PERSONAL INFORMATION

Hel Kumar Shrestha

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Sex Male | Date of birth 09/04/1995 | Nationality Nepalese

PERSONAL STATEMENT

To become a competent and established engineer in the field of electronics and communication with proactive contribution to innovation, development and welfare of society through knowledge gained, skills learned, experiences shared and obstacles overcome past future beyond.

WORK EXPERIENCE

July 2019- present

System Engineer

Sustainable Eco Engineering Pvt. Ltd. ,Lalitpur-16

Tel: +977-1-5261472 Email: info@susecoeng.com Web: www.susecoeng.com

- Engineering design and development of instrumentation like CBFWS, solar powered irrigation pumping and microcontroller based embedded systems.
- Coordination of technical team on design, development and installation of instruments.
- Support ICIMOD on installation of CBFWS instrument and to conduct regional hands-on training on CBFWS.
- Research and Develop hardware system for various embedded system
- Design, develop, and test the RF antenna for Xbee, LoRa radio, GSM
- ZIBee protocol-based radio analysis etc.

May 2017- Jun. 2018

Business or sector Engineering design

Assistant Engineer

Sustainable Eco Engineering Pvt. Ltd. ,Lalitpur-16 www.susecoeng.com

- To assist system engineer
- PCB Design
- Installation of CBFWS instrument, Solar powered water lifting system
- Support R&D team

Business or sector Engineering design

EDUCATION AND TRAINING

2018

Bachelor in Electronics & Communication Engineering

Kantipur Engineering College (Tribhuvan University)

- Advanced Java with Spring/Hibernate framework
- Microcontroller programming training
- Basic electronics training for circuit design and development
- Major subjects: Propagation and antenna, RF and microwave, Embedded system, Satellite system

2012

Intermediate in Science

Sirius Higher Secondary School & College

PERSONAL SKILLS

Mother tongue(s) Nepali
Other language(s) English, Hindi

Communication skills ▪ Good communication skills gained through field based technical and social scoping for CBFEWS

Organisational / managerial skills ▪ Leadership (through leading team in college projects, TWLMS instrument development and implementation and Energy monitoring system)
▪ Well organised (through managing project schedules in college and workplace)
▪ Team spirited (through always having worked in team environment in school, college, and workplace)

Job-related skills ▪ Good command of hardware programming (NXP, XBee PRO Zigbee, AVR, SIM800 2G GSM module, SIM7600 4G GSM module/ Huawei MC509 CDMA modules)
▪ Good command of programming languages (C, C++, JAVA, Python)
▪ sharp presentation skills (through topic and project presentations in college and as facilitator and trainer in regional Hand-On training on CBFEWS)

Digital skills

SELF-ASSESSMENT

Information
processing

Communication

Content
creation

Safety

Problem
solving

Basic level

Proficient level

Proficient level

Basic level

Proficient level

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

Replace with your other computer skills. Specify in what context they were acquired. Example:

- good command in MS office suite (word processor, Excel, Powerpoint, Visio via projects in college and workplace)
- good command of photo editing software gained as an amateur photographer

Other skills ▪ Able to travel (through experience TWLMS instrument installation in different parts of Nepal and India)

Driving licence A

ADDITIONAL INFORMATION

Technical Skills ▪ Java
▪ Wordpress
▪ Arduino IDE
▪ C
▪ C++
▪ Autodesk Eagle
▪ MATLAB

Projects

- **Energy Monitoring System**
System designed to monitor electrical parameters –primarily power –of electric supply and distribution lines for an electrical setup at home, office or industry incorporating multiple sources such as generators, grid interactive solar and utility grid supplying the load demand; Developed with Sustainable Eco Engineering P. Ltd.
Role: Coordination of system design and development. Concept development. Development of firmware components.
- **Telemetry based Water Level Monitoring System**
Instrument designed to generate flood early warning information for vulnerable communities while also allowing remote monitoring via telemetry through utilisation of Zigbee wireless protocols and cellular data; developed with Sustainable Eco Engineering P. Ltd. as part of the CBFWS framework developed by ICIMOD.
Role: Coordination of system design and development. Development of hardware and firmware components.
- **MPPT with Intensity Control of Light**
College major project: The MPPT with Intensity Control of Light is an electronics buck-boost converter that sense the input voltage/current from PV panel and it converts the suitable voltage so that it can deliver the maximum power to the load/battery and preserved battery will utilize for the light. The intensity of the LED increases as day passes and decreases as the dawn approaches or can be controlled manually
Role: Project coordination and Circuit design
- **Heliplane-20**
College Minor Project: A remote controlled model of a tiltrotor airplane that can transition between a helicopter and a plane; is based on the Bell Boeing V22 Osprey.
Role: Project coordination and management. Electronic control system design. .

Honours and awards

- LOCUS 2016- 13th National Technological Fest, 1st position (Open Hardware)
- Facilitator on Regional Hands-on Training on Community Based Flood Early Warning System organized by ICIMOD