

RELATED EXPERIENCE

- | | | |
|-------------------------------------|-----------------------|---------------------------|
| Web Designer & Developer | Humber college | Sep 2019 - Current |
|-------------------------------------|-----------------------|---------------------------|
- Extra-ordinary design mock-ups for customers to ensure product quality and client gratification before development phase
 - Management of Brands: name, logo, appearance, and design of the web site to get the best revenue.
 - Heavily involved in every step of web application framework design including: Logo design in Illustrator, creating multiple wireframe design, interactive prototypes in **Figma** (<https://www.figma.com/files/user/761960699047803030>) or **Adobe xD**, implementation and usability testing
 - Modified photos to be used in websites using **Adobe Photoshop, illustrator**.
 - Programmed and debugged in **HTML, CSS, and vanilla Javascript** (Visual studio code)
 - Designed, developed and executed serviceable small web programming projects without use of frameworks.
 - Developed **Responsive design** of web practice with **mobile first**.
 - Excellent use of **GIT**, git branch, merge for version management and **github** to store the code
 - projects: <https://github.com/bijaybdrkarki?tab=repositories>
 - A **Single Page Application** group project developed by concept of React.js framework (<https://github.com/wddm-122-alpha>),
 - A **MVC based Node.js project** (similar to Airbnb) from scratch using Express.JS, handlebars for HTML 2020 (<https://web120.herokuapp.com/>),
 - A single page composite web-project from scratch to demonstrate understanding of HTML, CSS coding, adobe photoshop and illustrator for logo design 2019 .
 - A single page web app for Accountant to Generate monthly salary slip of all different type of employees in a company. (<https://bijaybdrkarki.github.io/webstore/>)
 - Multiple page web-project for e-commerce starting with company name, logo design, well managed HTML,CSS and JS for functionality 2019 <https://bijaybdrkarki.github.io/webstore/>
 - Clear understanding of using frontend frameworks **React.JS, Vue.JS**, CSS frameworks **Bootstrap, SASS**
 - Exercising backend development using **node.JS Express, Handlebars**
 - Strong in **OOPS coding, MVC** concepts implement in Projects, deployment on **Heroku**
 - Fundamental understanding and implementation of NoSQL (MongoDB)
 - E-commerce knowledge (Shopify- liquid)

PREVIOUS EXPERIENCE

- | | | |
|--|--|----------------------------|
| Lecturer and Project Supervisor | Himalaya College of Engineering | Nov 2014 – Jul 2018 |
|--|--|----------------------------|
- Developed course and lab manual for all level (1st to 4th year), Conduct examinations, copy checking and marking, Report weekly to Head of Department, Handled lectures (100mins) and labs(180mins) with 48 students in each section
 - Supervise under major and minor undergrad projects, Assist/verify Project report writing : Vehicle tracking with alcohol detection (2015), Public vehicle tracker (2016),Vehicle over speed detection and recognition (2017), Analog and Digital Data transmission through VLC (2018)

- | | | |
|---|--|----------------------------|
| Network Admin & Lab Co-Ordinator | Himalaya College of Engineering | Nov 2013 - Jul 2015 |
|---|--|----------------------------|
- Install and configure computer network and system, Budgeting for equipment, assembly cost and content documentation biyearly, Work with other IT personnel and engineers as team
 - Monitor, Analyze and Manage all types of Network systems, Implementation and test all hardware/software to conduct lab, Identify and troubleshoot problems that arises with computer networks and system

Noted Achievements: solved the internet bandwidth issues among students and faculties by introducing Mikrotik-routers and bandwidth services, Introduced central database and RADIUS server in network for all students and staffs Login, ADS for central Local Area Network(LAN), Wireless LAN network, AP management, reduced maintenance cost by 50%

- | | | |
|-------------------|----------------------|---------------------------|
| Internship | Nepal Telecom | 15 may-13 Jun 2013 |
|-------------------|----------------------|---------------------------|
- Explored GSM core network and CDMA network
 - Implementation of various technology like GSM, CDMA, Wi-Max, Wi-fi, Gateways

EDUCATION

Toronto, CA

Humber College

Sep 2019 – April 2020

- Postgraduate in **Web design and development** (Running)
coursework: web design, web programming, plan, prototype, coding and development.
- Postgraduate (P.G.) in **Wireless Telecommunication**, April 2019 GPA: 4.0 (91.7%)
- Graduate Coursework: RF Technology, Fibre optics and microwave, Telecommunication, Data Networks, Applied Electromagnetics, , broadband communication and security, LTE core
- **Humber-Acentury Telecommunication Award 2019** for excellent academics

Kathmandu, NP

Himalaya College of Engineering

Nov 2009 – Oct 2013

- B.E. in **Electronics and Communication Engineering**, Oct 2013 GPA: 3.4
- Undergraduate Coursework: Analog and Digital Communication, **computer programming, object oriented programming**, Optical Fiber, Telecommunication, Wireless Communication and Remote Sensing
- Undergrad Semester topper: I & II & 2nd topper: III, IV, V, VI, VII & VIII

TECHNICAL PROJECTS AND TRAINING

- Asterisk SIP server based on Linux, fall 2018,
- Wireless Mesh networks using Arduino Yun(winter 2018), Automatic inverter 2012,
- Destination Indication Device, 2013(2nd best undergrad project and funded by Nepal Telecommunication Authority)
- Training on use of QCAT, XCAL for drive test, lab test on various telecom RF backgrounds like QPSK, QAM(16/64),

Languages and Technologies

- C++; C; JSON; JavaScript; node.js, React, Vue, Shopify, web design, server scripting, Microsoft office package, MATLAB, GIT, Github, VHDL, Verilog
- Microsoft visual studio, Adobe photoshop, illustrator, Adobe-Animation, After Effects
- Telecom technologies like GSM, CDMA, GPRS, EDGE, 3G, WCDMA/ UMTS, HSPA, HSPA+, LTE, LTE Adv, 5G (Non-standalone and standalone), Optical fiber splicing and power measurement using OTDR
- **OSI and TCP/IP models, DHCP, DNS, OS(windows, Mac, Linux); Protocols: RS232. I2C,**
- VPN, firewall and routing protocols RIP, EIGRP, OSPF, MPLS, BGP; organizational LAN, WLAN, Ethernet and ADS
- Digital and analog equipment's and tool's (Oscilloscope, Spectrum and Network Analyzer) debugging skills