**ON THE JOB TRAINING**

**REPORT**

*A report Submitted*

In Partial Fulfillment of the Requirements

for the Degree Of

**TECHNICAL EDUCATION**

in

**COMPUTER ENGINEERING**

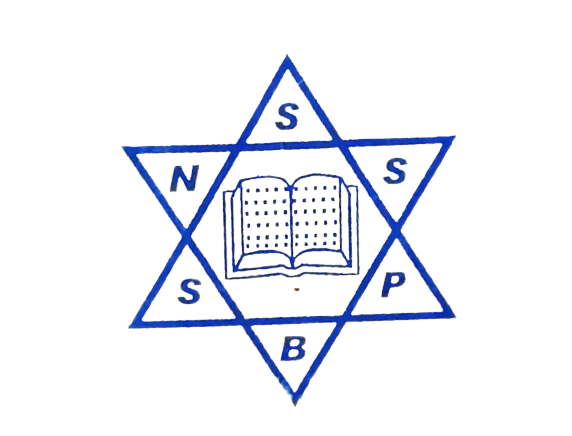
by

### Sahil Kumar Gupta Redg. No.: 773421021

**Under Supervision of**

**Mr. Wargis Mehta( Full stack Developer)**

**Mr. Anish Mehta( UX/UI Designer)**

****

**(Duration: )**

**DEPARTMENT OF COMPUTER ENGINEER**

**SHREE NRISINGH MADHYAMIK VIDYALAYA PIPRAMATH**

**BIRGUNJ-14, PARSA**

National Examination Board, Sanothimi, Bhaktapur

**~~BAISAKH, 2079~~**

Pan No.303934196

BAY20 SOFTWARE SERVICES

Geeta Mandir, Above Bakery Corner, Near Ghariarwa Pokhari, Birgunj-13(Nepal)

**TO WHOM IT MAY CONCERN**

This is certifying that Mr. Sahil Kumar Gupta. A student of Shree Nrisingh Madhyamik Vidyalaya Pipramath Birgunj-14, (Student of Technical and Vocational education) has interned with from ~~20~~~~th~~ ~~Asoj 2078 to 10~~~~th~~ ~~Baisakh 2079~~ as a Web Designer. He has worked on different website designs on the CMS like Wordpress, & Shopware. Also, he has designed Mockup on Adobe XD and have hands on experience on Basic Photoshop tools. He has successfully completed the job training (OJT) program and his work has been found to be good.

During the internship, the character and conduct of Mr. Dipesh Kumar Sah were found to be excellent. He has actively participated in various processes of the Shop and we are impressed by his work habits we take this opportunity to thank him. We wish him very successful in life.

……………………………..

Co-founder / CEO

Bay20 Software Services

Geeta Mandir, Birgunj 13(Nepal)

**SHREE NRISINGH MADHYAMIK VIDYALAYA**

PIPRAMATH, PARSA

BIRGUNJ

**DIPLOMA IN COMPUTER ENGINEERING**

**CERTIFICATE**

It is my pleasure to report that Mr. Dipesh Kumar Sah, 12th grade Technical student from ***Shree NrisinghMadhyamikVidyalaya, Birgunj-14, Pipra,Nepal*** has successful completed his/her internship and job training start from ~~20~~~~th~~~~Asoj 2077 to 10~~~~th~~ ~~Baisakh 2078.~~

In the short period of time he has gathered a lot of information from various division and its section of our Company which includes Programming, Software Testing and worked in our software.

During this time, we found him very hard working enthusiastic, and curious about the teaching related job.

We wish him/her for very success in his/her Future endeavors.

Mr. Sanjay Saxena(Co-Ordinator) …………………………..

Mr. Brijkishor Prasad Sah(Supervisor) ………………………….

Name: ………………………………… …………………………..

External

**SHREE NRISINGH MADHYAMIK VIDYALAYA**

PIPRAMATH, PARSA

BIRGUNJ

**DIPLOMA IN COMPUTER ENGINEERING**

**No Objection Letter**

***Mr. Dipesh Kumar Sah of Shree NrisinghMadhyamikVidyalaya, Birgunj-14, Parsa dt., Nepal having Symbol No. 2340264 and Registration No. 773421006*** has completed his job training with a disciplined behavior attitude. He demonstrated a sound personality during his/her tenure in our school. We have no Objection whatever regarding his/her on-the-job training(OJT) that he has undergone at our school.

Mr. Sanjay Saxena(Co-Ordinator) …………………………..

Mr. Brijkishor Prasad Sah(Supervisor) ………………………….

Name: ………………………………… …………………………..

External

**ACKNOWLEDGEMENT**

First and foremost, I humbly offer my glory and honor to the Almighty NRISINGH for the gift of life and giving me strength to perform my responsibilities as an Internee and complete the report within the stipulated time.

I am deeply indebted to my Agency supervisor Mr. Wargis & Anish Mehta, for his whole-hearted supervision during my organizational attachment, senior Developer of the Web-design and Development department, and to the entire staff of Shree Nrisingh Madhyamik Vidyalaya in Nepal for extending their support towards the success of my Organizational attachment (internship). I am also grateful to Mr. Wargis Mehta to carry out my internship from their company (Bay20 Software Services) and also for being my work place as Web-Designer. It would have been very difficult to prepare this report without their guidance

My gratitude goes to the entire computer science department of Shree Nrisingh Madhyamik Vidyalaya in Nepal for arranging Organizational attachment (internship-program) that facilitates integrating of theoretical knowledge with real life situation.

Last but not least of all, I owe so much to my whole family for their undying support, their unwavering belief that I can achieve so much unfortunately, I cannot thank everyone by name because it would take a lifetime but, I just want you all to know that you count so much, had it not been for all your prayers, love and help, I would never have completed this report. So, thank you all.

**What types of knowledge do I get by doing on-the-job training(OJT)?**

It’s Mr. Sahil Gupta from **SHREE NRISINGH MADHYAMIK VIDYALAYA PIPRAMATH BIRGUNJ-14.** I had completed my on-the-job Training in the Cosmic Computer, Birgunj Nepal. I had learned my things in this shop.

1. Learned About HTML & CSS
2. Learned About JavaScript.
3. Learned CSS and its pre-processor like LESS & SASS
4. Learned Web Library like JQuery, Bootstrap .
5. Learned about e-mailing.
6. Learned Word Press.
7. Learned GIT (Command line and GUI).
8. Learned Adobe Photoshop and XD.
9. Created Logos, Photos.
10. Created Post Banner, Websites Mockup On XD.
11. Created Website.

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**Introduction**

SHREE NRISHINGH MADHYAMIK VIDYALAYA PIPRAMATH BIRGUNJ-14, well established in Birgunj Town Since 2005 BS provides education in different sectors with government regards. It also runs computer diploma from class 9 to 12.

**On The Job Training**

OJT provides us great opportunity to enhance our skill related to job oriented capabilities. OJT plays viral role to utilize the time and enhance the work oriented skill.

#### Bay20 Software Services

Bay20 Software Consultancy Services Pvt. Ltd. started with the purpose of providing expert e-Commerce development and design services nationwide and globally. We have been able to gain popularity and growth by the virtue of great team and quality services.Bay20 Software Consultancy Services Pvt. Ltd. is an ISO 9001:2008 certified e-commerce solution provider. We are customer centric team lead by a Certified Magneto Developer Plus and ITIL Certified in IT Service Management. We are a team of experienced and passionate ecommerce Developers and Designers. The team has diversity in terms of skill-set. This diversity in skills makes us perfect team to deal with e-Commerce projects. We have a passionate team of web professionals. We have extensive experience in building robust and scalable web application with good quality

Chapter One:

* 1. Introduction class:

Observer my working on job style. How I am working in lab room. I am capable

For it or no. If any trouble happened, then I am able to troubleshoot them or not. I am

capable troubleshoot or not.

**Basic thing about computer:**

Computer is an electronic machine that accepts data using input device then

storeand processes them to generate desired output. A computer is basically a

programmablemachine capable to perform arithmetic and logical operations

automatically and sequentially.The computer word comes from “compute” which means

to calculate.

The calculate word means to find out the result of some operation on a number of values.

The meaning is not limited to the result of some operation on numeric values.

**Advantages of computer in our daily life.**

In our daily life more benefits of computer.Something are given below advantages:

1.Computers are any work can do simply and quickly.

2.We use computer school for collecting student data accounting, Notice etc.

3.We use computers are home for see movies video, listen audio songs, use email etc.

4.The computer produces highly accurate and reliable results.

1. **Lab Caring**  
    I first see lab and what problems in lab, if any problems in lab then solve this problems quickly. If any student doing practical I also helped them.
2. **Overview of software**  
    In this used software.This software is activeschool.This software type is utility software.In this software I am managingall thing like teacher attendees,students mark sheet,monthly bill and repotcard etc. Enter new record when student got admission in this school.
3. **Lab maintain** In this school, I maintained all computer labs for the student to properlymaintain the computer lab.In practical time any problem then Iam solving this problem.
4. **Software installation** Install all kinds of software which uses for thestudent like typing master,Microsoft office adobe Photoshop,chrome,antivirus, etc.Software installation refers to the particular configuration of software or hardware with a view to making it usable with the computer. A softor digital copy of the piece of software (program)is needed to install it.Thereisa different process of installing a piece of software.
5. **CPURepair**  
   Computer repair is the process of identifying troubleshooting andresolving problems and issues in a faulty computer.Computer repair is a broadfield encompassing many tools techniques and procedures used to repair computer hardware software or network internet problems.
6. **Changing RAM**

If your window pc is running slowly or if you can't run certain software on it of upgrade its operating system increasing the computer RAM iIt may help. The type of RAM you need depends on the make and it's a desktop or a laptop. In addition requirements for which generation of RAM it will accepts. So, be sure to look up the specifications for your machine. You also need to know which slots on the motherboard and in which combination you can install the RAM modules.

1. **Virus scan**

A virus scan is the process of using antivirus software to scan and identify virus in a computing device. It is an information security process that aims to review and identify threatening viruses and program. It is the core feature of antivirus software

1. **Format partitions**

Disk formatting is the process of preparing a data storage device such as a hard disk drive, solid state drive floppy disk or UAB flash drive for initial use. Partitioning is the common term for the second part of the process, making the data storage device visible to an operating system.

1. **Hardware concept**

The term hardware refers to mechanical device that makes up computer. Computer hardware consists of interconnected electronic device that we can use to control computer's operation, input and output. Example of hardware are CPU, keyboard, mouse and hard disk, etc. computer hardware is a collection of several components working together. Some parts are essential and others are added advantages. Computer hardware is made up of CPU and peripherals.

1. **Assembly system**

An assembly system is one of the subsystems in a manufacturing system factory where the individual components of a product are joined together and thus integrated into a semi-finished or into the final product.

1. **Repair system**

Computer repair is the process of identifying, troubleshooting, and resolving problems and issues in a fault computer. Computer repair is a market today to choose from. Antivirus software begins operating by checking your computer programs and files against a database of known types of malware. Since new viruses are constantly created and distributed by hackers, it will also scan computers for the possibility of a new or unknown type of malware threats. Typically, most programs will use three different detection devices, specific detection, which identifies known malware, generic detection, which looks for known parts or types of malware or patterns that are related by a common codebase, and heuristic detection, which scans for unknown vines by identifying known suspicious file structures.

**11.1 Cleaning Motherboard**

Cleaning the motherboard is one of the most important things you can do because the motherboard is one the most important part of your computer. Even a small problem or a piece of dirt on the motherboard can impact the performance. Even worse, doing something wrong can absolutely destroy. It if you are going to build your own computer, you will need to learn how to maintain and look after this sensitive piece, with time and use, your motherboard is going to get dusty. As most of us don't clean computer parts, we don't really know how to do keep everything looking brand now.

**11.2Changing SMPS** Switched mode power supply is an electronic circuit which converts the power using switching devices that are turned on and off at high frequencies, and storage components such as indicators or capacitors to supply power when the switching device is in its non-conduction state. It can be abbreviated as SMPS. The switched mode power supply is also called switched mode power supply or switching mode power supply. Its efficiency is high. That's why we use it in the variety of electronic types of equipment which require a stable and efficient power supply.

**11.3 Changing SATA cable**  
 The term SATA generally refers to the types cables and connections that follow this standard. Storage devices can transmit data of computer much, faster than an otherwise similar PATA device. Compared to parallel ATA, Serial ATA also has the benefit of cheaper cable costs and the ability to hot-swap devices. To hot swap means that the devices can be replaced without turning off the entire system. With PATA devices, you have to shut off the computer before replacing the hard drive

**11.4 Hard disk replace**

If your computer experiences sign of hard drive failure, it's best to replace it before it completely wears out. This gives you a chance to save the data stored on it, including your operating system. While it's a more complicated repair than many consumers feel comfortable performing on their own, you can save money by doing it yourself. In the following guide, we'll explain the basic steps for how to replace a hard drive, as well as the best way to get the operating system up and running again. This guide works for both replacing a defective hard and for swapping out an outdated one for something with more space and speed. Put the new drive-in. simply reverse the steps you already performed. Plugin the power connectorsaccording to the new drive's documentation, the follow-up with data connections cords. Depending on how short the connectors are, you may have to slide the drive into the bay first. A small flashlight can be helpful for seeing into the small space of the bay as you work. Replace the screws that hold the drive into the case, replace the computer case door, and you're now ready to set up a new drive.

1. **Antivirus installation** Antivirus programs and computer protection software are designed to evaluate data such as web pages, files, software and application to help find and eradicate malware as quickly as possible. Most provide real-time protection, which can protect your devices from incoming threats, scan your entire computer regularly for known threats and provide automatic updates, and identify, block and delete malicious codes and software. Because so many activities are now conducted online and new threats emerge continuously, it's more important than ever to install a protective antivirus program. Fortunately, there are a number of excellent products on the market today choose from, Antivirus software begins operating by checking your computer programs and files against a database of known types of malware. Since new viruses are constantly creating and distributed by hackers, it will also scan computer for the possibility of new or unknown type of malware threats. Typically, most programs will use three different detection devices: specified detection, which identifies known malware, generic detection which looks for known parts or types of malware or pattern that are related by a common codebase, and heuristic detection, which scans for unknown viruses by identifying known suspicious file structures. When the program finds a file that contains a virus, it will usually quarantine it and/or mark it for detection, making it inaccessible and removing the risk to your device.
2. **Printer Repair**  
    Printer repair services provide maintenance and repair function for computer printers and plotters. Deciding on printer repair or replacement depends mainly on the component that has stopped functioning, Printer repair services offers on site printer repairs services printer repair vouchers (ideal for larger companies), comprehensive printer service and printer maintenance contracts, workshop printer repairs, printer installation and relocation, printer operator training, engineer training. printing solutions advice, printer and copier replacements, printer consumable sales, and spare part identification and supply. Different types of printer that printer repair services cover include laser printers, dye sublimation printers, ink jet printers, plotters, direct thermal printers, line printers, thermal transfer printers, flexographic printers, hot stamping printers, letter press printers, offset printers, pad printers, rotogravure printers, screen printers, letterpress printers, dot matrix printers and LED/LCD printers.

**12.1 Drum change**

Everyone who owns a laser printer is familiar with replacing a toner cartridge. Not everyone is as familiar with drum units. So before we go any further, let's define them both: Both of these components are essential for producing a print. Depending on what printer you own, you might be used to replacing your drum unit occasionally, or your may have never had to replace a drum unit so, why the inconsistency? It is all contingent on the design of your printer. A drum unit can be incorporated with the toner cartridge, or sold separately as a single unit, depending on the consumable requirements of your printer. Laser printers and their consumables vary across printer models. Some printers only need you to replace the toner cartridge and the drum unit. Consult your printer's user manual to determine what consumables are appropriate for your machine.

1. **Internet connection**

Internet connection options vary by internet service provider and by region. Customers should consider some of the following factors before selecting an internet package and internet connection type: connection speed or bandwidth, cost, availability, reliability and convenience. In order to determine what internet plan is right for you, we recommend you review the different types of internet connections and connections speeds available on the market today. When determining which type of internet speed and internet connection type is right for you, or your family, it's important to understand the distinction between each connection. In today's age there are numerous ways to connect laptops, desktops, mobile phones, gamming consoles, e-readers and tablets to the internet.

1. **window installation**

**How to install window step by step**  
i. First we make a pen drive bootable

ii. Second we are our system is turned off   
iii. Then insert bootable pen drive in computer  
iv. After we press power button of pc along press boot key your pc (eg. 19 forhp,

F12 for dell)  
v. Then itself come boot manager  
vi. Then choose option USB hard drive and press enter on your key board   
vii. Then come three option

a. Language to install: In this option select language.

b. Time and currency format: In this option choose any option

c. Keyboard or input method: In this option choose keyboard

viii. Then click on next button

ix. Then come "Install now" button click on

x. Then come window license: then click "accept and press next button  
xi. Then come two options:

a. Upgrade: install windows and keep files, setting  
b. Custom: install windows only

xii. Then you can choose any one option

xiii.Then come" where you want to install windows then you choosepartition drive

and click ok

xiv. Then starting windows installation it takes five to ten minutes then your system

automatically restart

xv.Then you can remove our pen drive

xvi. Then we manage our all setting.

1. **Office package installation**

**How to install office package step by step?**

1. First we download Microsoft office from internet
2. Then extract Zip file and search setup

iii. Then double click on setup and press enter

iv. Then show product key

v. Then we copy product key from instructions file then paste

vi. Then click on ok   
vii. Then starting installing its take five to seven minutes’ time

viii. Then finish on click