

S.B.V. Tech Corporation

Regional Occupational Program

Information Technology Career Pathway

Maywood Academy High School 6125 Pine Avenue Maywood, CA. 9270

Computer Networking 1

Network Proposal

3D Hologram Design

Prepared by:

Sergio Vera Bryan Hermsillo Victor Torres

Presented to Instructor: Mr. Hamilton

CEO: Sergio Vera

S.B.V. Tech Corporation

Vice President: Bryan Hermosillo

COO: Victor Torres

Phone: 650-956-4672

Fax: 650-731-4693

1000 Industrial rd.

Mountain View, CA

admin@sbvtech.com

Job titles:

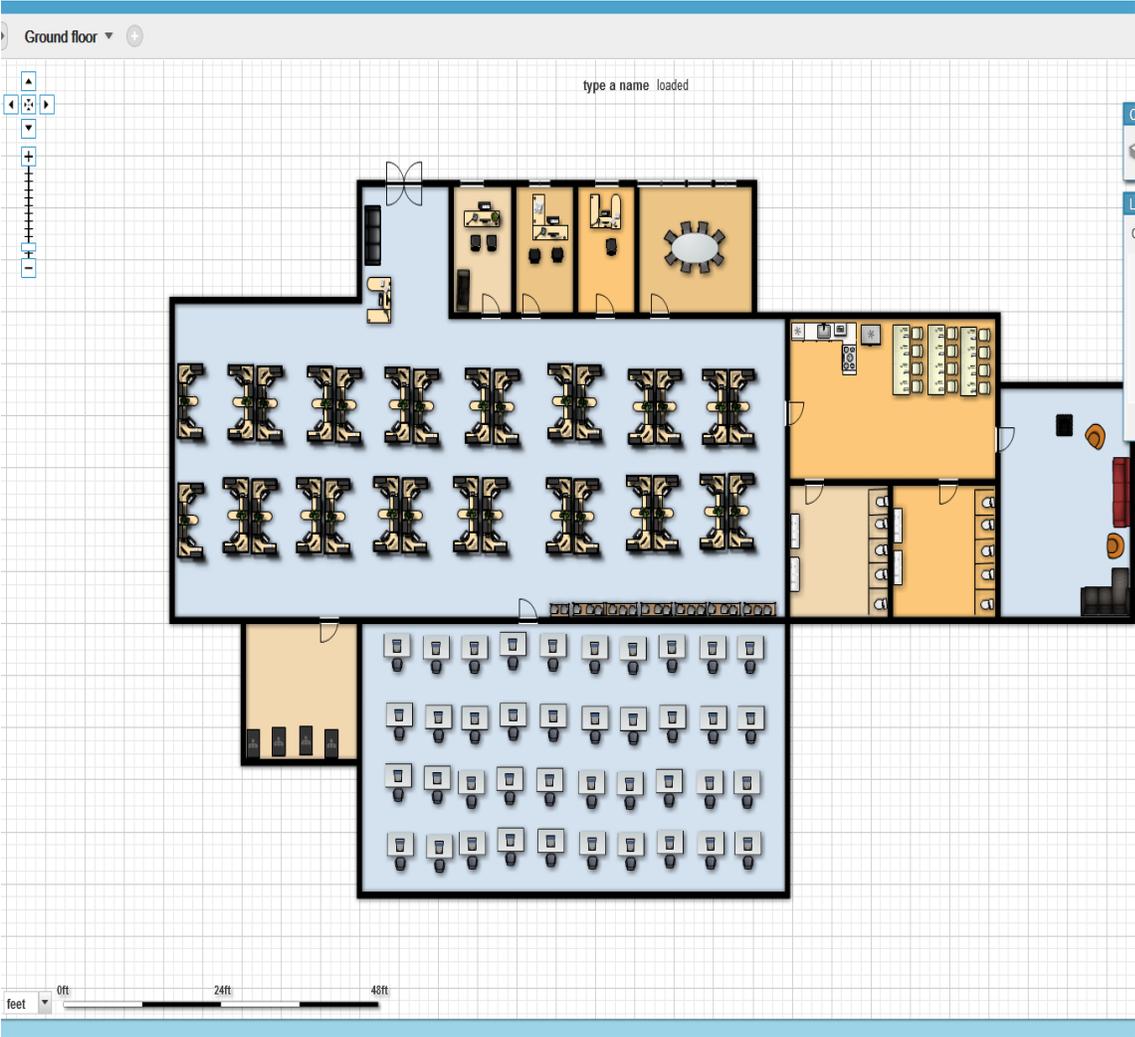
Sergio: is a manager at the top level of the organization I am Responsible for making organization-wide decisions, and I also establish goals and plans that affect the entire organization.

Bryan: Makes the decisions and appoints people to do a certain job, Helps out the CEO.

Victor (COO): Is responsible for the daily operation of the company.

S.B.V. Tech Corporation

Floorplan.



S.B.V. Tech Corporation

PartsList



WORKSTATIONS



SERVERS

S.B.V. Tech Corporation



ENTERPRISE ROUTER



LAPTOPS



NETWORK SWITCH

S.B.V. Tech Corporation



ENTERPRISE ACCESS POINT



PATCH PANEL



MODULAR JACKS

S.B.V. Tech Corporation



HORIZONTAL CABLE



COLOR LASER JET PRINTER

S.B.V. Tech Corporation

Price List

PARTS	PRICE	Quantity	TOTAL	
Workstation Desktop	\$ 1,431.99	60	60 x 1,431.99	85,919.40
Server	\$ 2,578.99	4	4 x 2,578.99	\$10,315.96
Laptops	\$ 399.99	40	40 x 399.99	\$15,999.60
Color laser Jet	\$ 383.99	20	20 x 383.99	\$7,676.80
Network Switch Netgear	\$ 197.65	5	5 x 197.65	\$988.25
Enterprise Router	\$ 269.99	5	5 x 269.99	\$1,349.95
Enterprise Access Point	\$ 130.1	5	5 x 130.10	\$650.50
Horizontal Cable	\$ 55.87	5	5 x 55.87	\$279.35
Modular Jacks	\$ 9.97	10	10 x 9.97	\$99.70
Patch Panel	\$ 72	5	5 x 72.00	\$360.00
				\$123,000

S.B.V. Tech Corporation

COST QUOTES



Processors:

-Intel® Xeon® 5600 processors with up to six-cores, 6.4GT/s (Intel Quick Path Interconnect) and 12MB shared cache and Turbo Boost Mode on select processors.

Chipset: Intel® 5520 chip set

Memory:

-Up to 72GB with dual processors installed. Three channel memory architecture per processor with 1333 MHz and 1066MHz DDR3 ECC Registered DIMM memory

Processors:

-Intel® Xeon® 5600 processors with up to six-cores, 6.4GT/s (Intel Quick Path Interconnect) and 12MB shared cache and Turbo Boost Mode on select processors.

Chipset: Intel® 5520 chip set

Memory:

-Up to 72GB with dual processors installed. Three channel memory architecture per processor with 1333 MHz and 1066MHz DDR3 ECC Registered DIMM memory.

-Up to 9 DIMM slots; 6 slots (2 per channel) on motherboard and additional 3 slots on optional 2nd processor riser card. The 2nd processor has an integrated memory controller which provides an additional 3 channels of memory bandwidth.

Hard Drives:

-SATA 3.0Gb/s 7200RPM with 16MB Data Burst Cache™ up to 2.0TB

-SATA 3.0Gb/s 7200RPM with 8MB Data Burst Cache up to 250GB

-SATA 3.0Gb/s 10K RPM with 16MB Data Burst Cache up to 600GB

-SAS 15K RPM up to 600GB

-SSD 256GB

Network Controller:

-Integrated Broadcom® 5754 Gigabit Ethernet controller

-2nd Gigabit port is available with the optional PCI-e Broadcom Gigabit controller card

Price: \$1,431.99

S.B.V. Tech Corporation



Main

BrandDELL**Series**PowerEdge T420**Model**469-3777**Type**Tower**Rack Height**5U/**Tower**

Processor

CPU Type Intel Xeon E5-2407 2.2GHz 4C/4T**Cache Memory**10MB**CPU Features**80W**MAX Processors**2

Mainboard

Chipset Intel C600 series

Memory

Installed Memory Size8GB (2x4GB)**Memory Type**DDR3**MAX Memory Capacity**384GB**Memory Features**12 DIMM slots

Storage

Hard Drive (Installed) 2 x 500GB

7.2K RPM SATA**Storage Controller**PERC H710 Adapter **RAID Controller**, 512MB NV Cache, Full Height**HDD Interface**SATA/SAS**Raid Level** RAID 0/1/5/6/10/50/60**Media Drives**DVD ROM

Graphic Controller

Graphic TypeMatrox G200**Video Memory**16 MB

Price: \$2,578.99

S.B.V. Tech Corporation



- **AMD Dual-Core A6-4400M Accelerated Processor**
- **Windows 8**
- **4GB DDR3 memory**
- **500GB 5400 RPM storage**
- **AMD Radeon HD integrated graphics**
- **DVD Supermulti drive**
- **1366x768 TruBrite display**
- **802.11b/g/n wireless**
- **HDMI output**
- **Integrated 1MP (720p) webcam**

•Price: \$399.99

S.B.V. Tech Corporation

Why we chose Ethernet

In SBV Tech Corporation we believe that using Ethernet cables to do our everyday work is most dependable. At SBV Tech Corporation we have about one-hundred computers all connected to a network through Ethernet cable. We chose to use Ethernet cables over wireless because it costs a lot less to use wires and by cutting money we can use it to provide better services to our costumers. A hardwired Ethernet connection may have a faster speed than wireless and is less susceptible to interference. wireless computer adapters have a max speed of 54Mbs. Ethernet that has a max speed of 1000Mbs. This shows that Ethernet cabling is a lot faster than wireless and it provides a faster service to our costumers than wireless connection. At SBV Tech Corporation we try to give our costumer the best and fastest service. If we had wireless connection through our corporation running at 20mps our wireless connection would limit the broadband and if we use Ethernet cables then we would not limit our speed. Ethernet cables, hubs and switches are extremely reliable, mainly because manufacturers have been continually improving Ethernet technology over several decades. Loose cables likely remain the single most common and annoying source of failure in a wired network. Broadband routers have also suffered from some reliability problems in the past. Unlike other Ethernet gear, these products are relatively new, multi-function devices. Wireless LANs suffer a few more reliability problems than wired LANs, though perhaps not enough to be a significant concern. 802.11b and 802.11g wireless signals are subject to interference from other home applicances including microwave ovens, cordless telephones, and garage door openers. This shows that wireless connections wouldn't be good in our corporation. In theory, wireless LANs are less secure than wired LANs, because wireless communication signals travel through the air and can easily be intercepted. Wired LANs utilizing hubs can suffer performance slowdown if computers heavily utilize the network simultaneously. Use Ethernet switches instead of hubs to avoid this problem; a switch costs little more than a hub. For any wired LAN connected to the Internet, firewalls are the primary security consideration. Wired Ethernet hubs and switches do not support firewalls. In conclusion at SBV Tech Corporation we care about our costumers needs and using Ethernet cables help us be the better ccorporation at givin our costumers the best service.

S.B.V. Tech Corporation

MAINTENANCE AGREEMENT

NO. 1

SBV Tech Corporation, agrees to provide Preventative Maintenance on the equipment designated in Schedule "A" hereto, in accordance with the terms and conditions of this agreement, at the following location(s):

CUSTOMER: 3D Hologram Design

BILLING ADDRESS: 4857 E 62st street

SERVICE AT: (323)8906418

SBV Tech Corporation Preventative Maintenance shall be performed by qualified licensed personnel, directly employed or supervised by COMPANY ABC, to keep your equipment operating at maximum efficiency.

SBV Tech Corporation will perform regular and systematic Preventative Maintenance, during normal working hours and according to the attached Schedule "A" and Schedule "B".

SBV Tech Corporation Preventative Maintenance shall be performed in accordance with a prepared program of standardized maintenance routines applied to your equipment.

The services covered by this agreement are those checked herein.

GENERAL CONDITIONS

Normal working hours are defined as 8:00 a.m. to 5:00 p.m. Monday through Friday inclusive, excluding holidays.

SBV Tech Corporation shall be provided reasonable means of access to the equipment being serviced. SBV Tech Corporation shall be permitted to start and stop all equipment necessary to perform the herein-agreed services as arranged with your representative.

SBV Tech Corporation shall not be liable for any loss, delay, injury or damage that may be caused by circumstances beyond its control including but not restricted to acts of God, war, terrorism, civil commotion, acts of government, fire, theft, corrosion, floods, freeze-ups, strikes, lockouts, differences with workmen, riots, explosions, quarantine restrictions, delays in transportation, shortage of vehicles, fuel, labour or materials, or malicious mischief. In no event shall COMPANY ABC be liable for business interruptions losses or consequential or speculative damages, but this sentence shall not relieve COMPANY ABC of liability for damage to property or injury to persons resulting from accidents caused directly by the negligence of SBV Tech Corporation in the performance of its obligation under this agreement.

S.B.V. Tech Corporation

SBV Tech Corporation shall not be required to complete safety tests, install new devices or make modifications to any equipment to comply with recommendations or directives of insurance companies, governmental bodies, or for other reasons.

SBV Tech Corporation shall not be required to make replacements or repairs necessitated by reason of any other cause beyond its control except ordinary wear and tear.

When emergency service is made at your request at times other than that at which we would have made a scheduled Preventative Maintenance call, and inspection does not reveal any defect required to be serviced under this agreement, we reserve the right to charge you at our prevailing service labour rate.

This agreement pre-supposes that all equipment covered by this agreement is in satisfactory working condition. Any equipment found in need of repairs upon initial inspection or initial seasonal start-up will be reported to the owner immediately with a written estimate stating the cost of repairs. Should the repairs not be authorized within 30 (thirty) days the equipment will be eliminated from coverage and the agreement price shall be adjusted accordingly.

REPAIR AND REPLACEMENT

Subscriber hereby agrees that no unauthorized repairs or attempted repairs of the equipment shall be made by subscriber's employees, agents, or by third parties. In the event that such unauthorized repair or attempts to repair result in service being performed by SBV Tech Corporation representatives which would not have been required in the absence of such unauthorized repairs or attempted repairs, SBV Tech Corporation shall charge subscriber for such additional required service, and subscriber hereby agrees to pay such additional service charges.

LIABILITY

SBV Tech Corporation shall not be liable for failure to perform its obligations hereunder, and such failure to perform shall not constitute a breach of this agreement, when repair of the equipment is required as a result of accident, misuse, abuse, electric current fluctuations, use of supplies or accessories that do not meet SBV Tech Corporation standards, fire, flood, or other adverse conditions damaging the Equipment at Subscriber's premises. Additionally, SBV Tech Corporation shall not be liable for delays or failure to perform under this agreement for causes beyond its reasonable control for the period of time that such causes are enduring.

S.B.V. Tech Corporation

TERMS AND PAYMENT

This agreement shall begin on October 1, 2009 and shall remain in effect from year to year unless terminated in writing within 30 days of anniversary date.

For services designated herein; for equipment detailed in Schedule "A" and serviced with the frequency detailed in Schedule "B", you agree to pay COMPANY ABC, the amount of \$ (dollars) plus G.S.T. per annum.

For the succeeding years, the fee shall be increased or decreased, having regard to changes in 4857 E 62st street, labour costs, such adjustment to be made within thirty days of the anniversary date of the agreement in each year, and failing agreement on such adjustment, this agreement shall be terminated forthwith.

ACCEPTED IN DUPLICATE:

_____ SBV Tech Corporation.

(Name of Firm or Organization)

_____ 4857 E 62st street

(Billing Address)

_____ 5697 e 61st

(City, Province and Postal Code)

_____ Per1

S.B.V. Tech Corporation

(Customer Signature) Name Here

Service Manager

_____ Date: 5/20/13

(Date)

Customer Location

BILLING

Phone Phone Same _____

Fax _____

E-mail _____

Contact _____