

**Regional Occupational Program**

**Information Technology Career Pathway**

Maywood Academy High School 6125 Pine Avenue Maywood, CA. 90270



Computer Networking 1

Network Proposal

3D Hologram Design Versile Inc.

Prepared By: Alejandro Jimenez, Eric Sanchez, Adrian Reyes

Presented to Instructor:

Mr. Hamilton

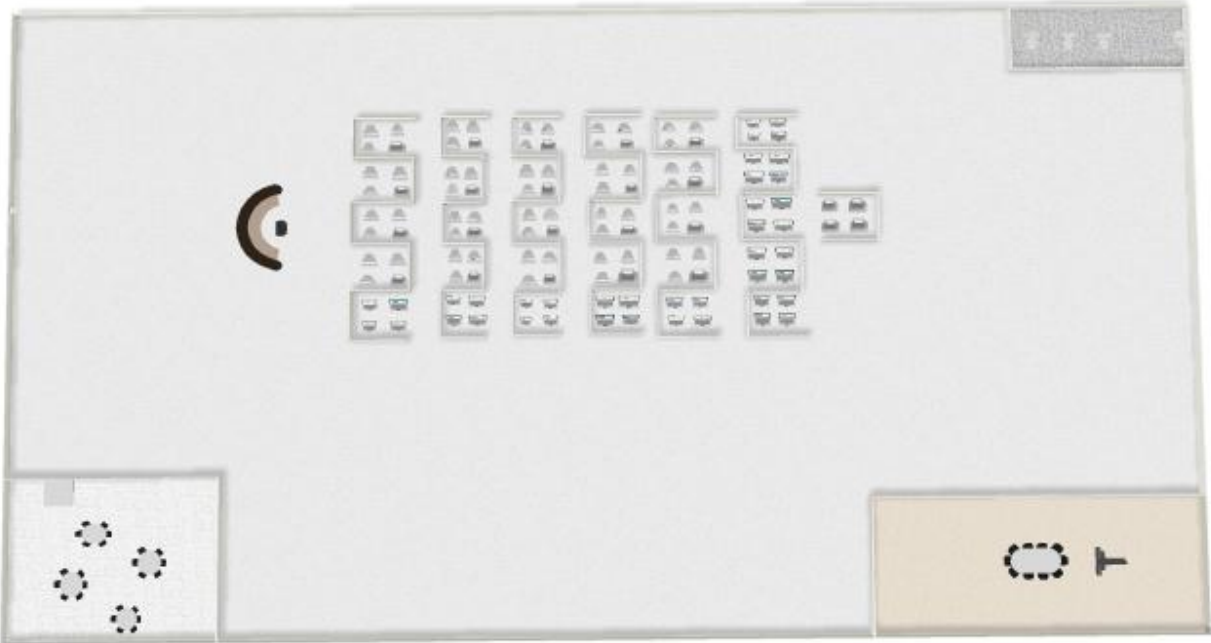
## Job Titles

Alejandro Jimenez	Manager: supervise the work of administrators, engineers, technicians, and/or programmers. Network / Information Systems Managers also focus on longer-range planning and strategy considerations
Eric Sanchez	Network Programmer/Analysts: write software programs or scripts that aid in network analysis, such as diagnostics or monitoring utilities.
Adrian Reyes	Network Technician: focus more on the setup, troubleshooting, and repair of specific hardware and software products.

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# Floor Plan



Parts list



product
Inspiron 15 Laptop



PowerConnect 7048P
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Dell PowerEdge T110 II Tower Server
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Dell C3760dn Color Laser Printer
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Dell Precision T3600  
Workstation



Enhanced all-fiber  
Gigabit Ethernet fixed  
port switch with 10Gb  
uplinks router



Dell OptiPlex 580



American Power  
Conversion



C2G



C2G



TrippLite



TRENDnet



PDU Metered 120V  
15A 5-15R 16 Outlet  
0U RM



Dell Line Interactive  
Rack UPS



TrippLite



American Power  
Conversion








Price List

	Description	Unit Price	Quantity	Total Price
1	Dell Precision T3600 Fixed Workstations	\$729.00	60	\$43740
2	Dell C3760dn Color Laser Printer	\$569.99	40	\$22800.00
3	Dell PowerEdge T110 II compact tower server	\$ 645.00	4	\$2580.00
4	PowerConnect 7048P Switch	\$725400	25	\$181350.00
5	Dell Inspiron 17R Special Edition Laptop	\$499.99	40	\$20000.00
6	Enhanced all-fiber Gigabit Ethernet fixed port switch with 10Gb uplinks router	\$605400	20	\$12108000.00
7	Dell OptiPlex 580	\$529.00	20	\$10580.00
8	American Power Conversion	\$499.99	20	\$10000
9	C2G	\$10.99	20	\$219.8
10	C2G	\$315.99	20	\$6319.80
11	TrippLite	\$1,379.99	20	\$27599.8
12	TRENDnet	\$350.99	20	\$7019.8
13	PDU Metered 120V 15A 5-15R 16 Outlet 0U RM	\$112.99	20	\$2259.8
14	Dell Line Interactive Rack	\$729.00	20	\$14580

	UPS			
15	TrippLite	\$895.99	20	\$17919.8
16	American Power Conversion	\$1,550.00	20	\$31000

Cost Quotes

Item	Description	Unit price	Total price
<p>Dell Precision T3600 Workstation</p> 	<ul style="list-style-type: none"> <li>•Intel® Xeon® Processor E5-1607 (Four Core, 3.0GHz, 10M)</li> <li>•Windows 7 Professional, SP1, No Media, 64-bit, English</li> <li>•4GB2 DDR3 SDRAM at 1600MHz</li> <li>•250GB, 7200 RPM 3.5" SATA 6Gb/s Hard Drive</li> </ul>	\$729.00	\$43740
<p>Dell C3760dn Color Laser Printer</p> 	<p>Print up to 35ppm in A4 mono and color at up to 2400 dpi resolution (software enhanced) High duty cycle of 80,000 pages per month</p>	\$569.99	\$22800.00
<p>Dell PowerEdge T110 II Tower Server</p> 	<p>Business performance with Intel® Xeon® E3 processor family and the Intel® Core™ processor i3-2100 product family. Scalable to support business growth with up to 6 hard drives and 4 DDR3 memory slots Connect to a variety of peripherals with 4 PCIe slots</p>	\$645.00	\$2580.00
<p>Enhanced all-fiber Gigabit Ethernet fixed port switch with 10Gb uplinks router</p> 	<p>10000 Mbps Ethernet, 10 Gigabit Ethernet...Interfaces</p>	\$605400	\$121080
<p>PowerConnect 7048P Switch</p>	<p>...10000 Mbps Ethernet, 10 Gigabit Ethernet...Interfaces</p>	\$7,254.00	\$181350.00

 <p>American Power Conversion</p>	provides reliable, redundant power to single-corded equipment	\$1,550.00	\$31000

## Technical Essay

The reasons why we are using Ethernet over other selections is because of its many advantages. Ethernet has a better speed, installation simplicity, and availability.

Speed is one thing our company will provide to make this business more efficient than the other networking companies. With Ethernet has the gigabyte, which sends information across the wires at 100 gigabits per second. At this rate much work will be done quicker than on a fiber line. Ethernet is fast enough to transfer large files across a network without waiting hours for the file to complete the transfer.

Installation Simplicity, which is a standard for Ethernet cables. Ethernet makes it easy for users to purchase the right equipment and quickly install the cabling. Ethernet network adapters can insert cables quickly into computers without any kinds of networking administration knowledge.

Availability, coax or fiber cables are difficult for average people to work with. People might accidentally break the cable.

## NETWORK INSTALLATION AND MAINTENANCE AGREEMENT

THIS AGREEMENT (“Agreement”) is entered into on , between \_\_\_\_\_ (“Provider”), with its principal place of business located at \_\_\_\_\_ and \_\_\_\_\_ (“Client”), with its principal place of business located at \_\_\_\_\_ and shall be effective as of , (the “Effective Date”).

### RECITALS

WHEREAS, Provider is engaged in the business of providing services involving design, installation and maintenance of computer networks;

WHEREAS, Client desires to retain Provider to perform the services set forth in this agreement.

NOW, THEREFORE, Provider and Client agree as follows.

#### 1. Scope of Services

Provider will perform such infrastructure development, network maintenance and support services as are set forth in Exhibit A (Statement of Work)

#### 2. Price and Payment

Client will pay Provider for the Network Services at the price and on the terms set forth in Exhibit A. The price set forth in this Agreement does not include any sales, use, service, or similar taxes that may be payable by reason of the provision of the Network Services, and Client will pay all such taxes which may become due in connection with the Services.

#### 3. Term and Termination

Unless terminated as provided herein, this Agreement will extend for a period of 120 Days. Provider may terminate this Agreement without cause upon sixty (60) days written notice, and Client may terminate this Agreement without cause upon thirty (30) days written notice. In the event of termination by either party without cause, Client will pay Provider for all of the Services performed up to the date of termination. Either party may terminate this agreement upon written notice for material breach, provided, however, that the terminating party has given the other party at least fourteen (14) days written notice of and the opportunity to cure the breach. Termination for breach will not alter or affect the terminating part’s right to exercise other remedies for breach.

#### 4. Obligation of Client

A. Client will immediately notify Provider upon learning of any significant problem with the performance of the network.

- B. Client will cooperate with Provider in connection with its performance of the services by providing access to the Client's physical premises as reasonably necessary from time to time.
- C. Client will, from time to time, purchase such software and hardware as may be reasonable necessary for the effective operation of its network.
- D. Client will be solely responsible for performing the day-to-day tasks associated with creating archival or backup copies of data stored on the network servers and/or on the hard drives of individual workstations.
- E. Client will notify Provider within a commercially reasonable time regarding any change in the identity of client's Network Administrator.

#### 5. Confidential Information

- A. All information relating to Client that is known to be confidential or proprietary, or which is clearly marked as such, will be held in confidence by Provider and will not be disclosed or used by Provider except to the extent that such disclosure or use is reasonably necessary to the performance of Provider's Work.
- B. All information relating to Provider that is known to be confidential or proprietary, or which is clearly marked as such, will be held in confidence by Client and will not be disclosed or used by Client except to the extent that such disclosure or use is reasonably necessary to the performance of Client's duties and obligations under this Agreement
- C. These obligations of confidentiality will extend for a period of three (3) months after the termination of this agreement, but will not apply with respect to information that is independently developed by the parties, lawfully becomes a part of the public domain, or of which the parties gained knowledge or possession free of any confidentiality obligation.

#### 6. Warranty and Disclaimer

Client acknowledges that no computer system or software can be made completely stable or secure, and that Provider cannot guarantee the stability, safety or security of Client's network or data. Provider warrants that the Network Services will be provided in a workmanlike manner, and in conformity with generally prevailing industry standards and the time frame, if any, set forth in the description of Network Services herein. Client is solely responsible for implementing and monitoring appropriate operational and security procedures, and for making appropriate backup copies of all data. THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND ANY ORAL OR WRITTEN REPRESENTATIONS, PROPOSALS OR STATEMENTS MADE ON OR PRIOR TO THE EFFECTIVE DATE OF THIS AGREEMENT.

## Resources Used

Dell.com

Floorplanner.com

Gateway.com

Entrepreneur.com