



*Regional Occupational Program  
Information Technological Career Pathway  
Maywood Academy High School 6125 Pine Avenue Maywood, CA, 90270*

*Computer Networking 1  
Network Proposal  
3DHologram Design*

*Prepared by:*

*LEON Corp:*

*Odalys Barajas, Eduardo Angeles, Loisa Gomez, Nelson Romero*

*Presented to Instructor: Mr. Hamilton*



*Officers of the designated company:*

*Odalys Barajas: CEO (Chief Executive Officer or President)*

This individual is responsible for being the driving force behind the company: she will make things happen regarding the company's best interest, as she puts together the resources to support the company and take the product to the market place. Also this individual is responsible for maintaining the whole company in order and making sure to go over all the sectors of the company to make sure everything is working and that all employees are working in their designated areas.

*Nelson Romero: COO (Chief Operating Officer or Vice President of Operations or General Manager)*

This individual is responsible for making sure the company operations flow smoothly and economically. He is responsible for making certain that necessary work is done properly and on time. When the CEO is not present the COO is able to take charge and maintain the company operating.

*Eduardo Angeles: Vice President of Marketing or Marketing Manager*

This individual is in charge of marketing the company's products to the customers and vendors. The individual in this slot comes up with marketing ideas of which they come up with logos, posters, banners, flyers, commercials and etc. As this individual is the artistic side of the company of which this person uses different tactics to capture the public attentions in wanting to buy merchandise or assistance from the company.

*Loisa Gomez: Operations manager.*

This individual is the leader for the operation and has overall responsibility for the financial success of the business. The operations manager handles external relations with lenders, community leaders and vendors. Also this individual is in charge of either production or marketing for the business by setting in motion in the vision, strategic plan and goals for the networking company.

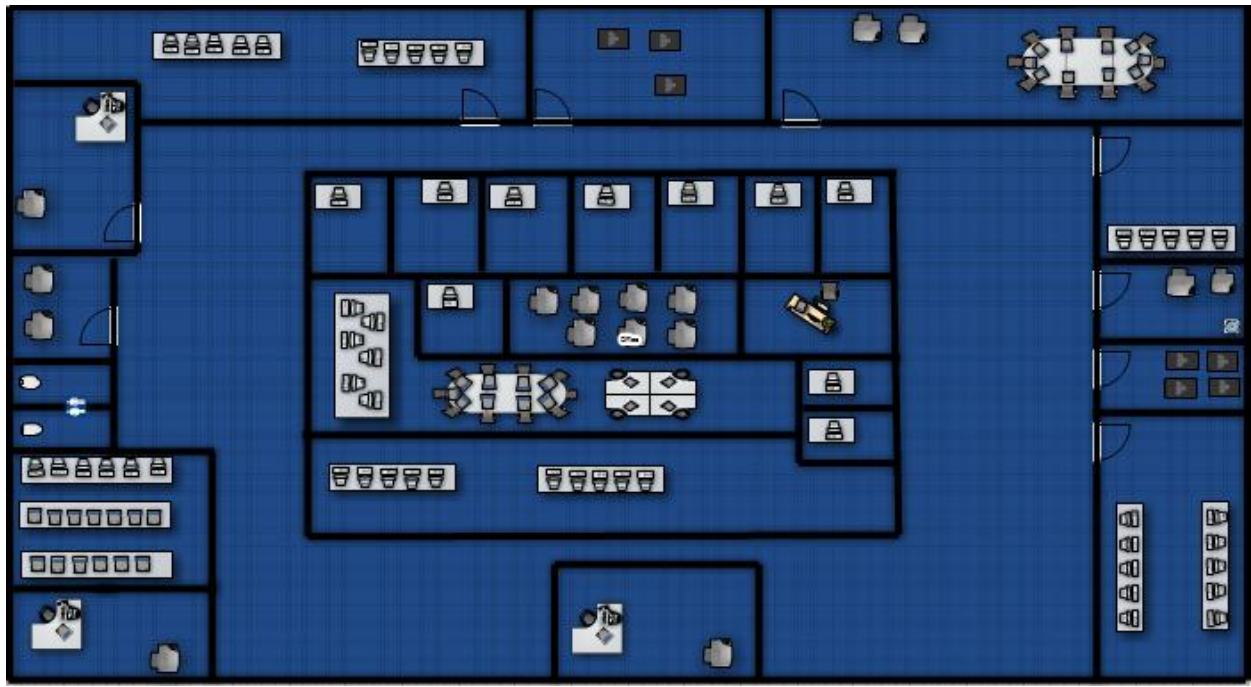


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# Floor Plan















# Parts List

Picture	Name
1. 	Luxor Adjustable- Height Computer Workstation
2. 	My Book Live Duo Network Storage Server (NAS), 4TB, Black
3. 	HP 2000-2b20NR Laptop Computer with 15.6" screen & Intel
4. 	HP LaserJet Pro CP 1525nw Refurbished color printer
5. 	Fast Ethernet office switch metal case, 16 port, <u>intellinet</u>



6.		Allied Telesis Modular Enterprise Router Mfr P/N AT-AR740
7.		Cisco WAP4410N Wireless-N Access Point with PoE/Advanced Security
8.		Belkin CAT5e Horizontal UTP Cable
9.		Cooper Wiring Devices 5547- SEW Cat 5e RJ45 Modular Data Jack, White
10.		Cat5e 350Mhz UTP Network Patch Cable, Booted, White, 50ft
11. telecommunication outlet		
12.		Cat5e patch panel, standard, 24 port black
13.		Premiere raceway products FWH- 11414 1/2 -inch WireHider raceway, 4 foot length, white



14. 	StarTech.com 42U Adjustable 4 Post Open Server Equipment Rack Cabinet
15. 	Cable management rack 2U, 19in
16. 	Midwest fastener corp 8032 11" cable ties (pack of 100)



# Cost Quotes

7. Enterprise Access Point	Cisco WAP4410N Wireless- N Access Point with PoE/Advanced Security	\$173.99	?	\$173.99
8. Horizontal Cable ( Category 5e or 6)	Belkin CAT5e Horizontal UTP Cable	\$104.95	?	\$104.95
9. Modular Jack	Cooper Wiring Devices 5547-SEW Cat 5e RJ45 Modular Data Jack, White	\$4.77	?	\$4.77
10. Patch Cables (Jumper Cable)	Cooper Wiring Devices 5547-SEW Cat 5e RJ45 Modular Data Jack, White	\$14.59	?	\$14.59
11. Telecommunication Outlet (1,2,4,6,- Configurations)		\$		\$
12. Patch Panel	Cat5e patch panel, standard, 24 port	\$39.99	?	\$39.99





	black			
13. Raceway	Premiere raceway products FWH-11414 1/2 - inch WireHider raceway, 4 foot length, white	\$3.90	?	\$3.90
14. Equipment Rack	StarTech.com 42U Adjustable 4 Post Open Server Equipment Rack Cabinet	\$353.95	?	\$353.95
15. Cabling Rack	Cable management rack 2U, 19in	\$21.95	?	\$21.95
16. Cable Tie and Fastener	Midwest fastener corp 8032 11" cable ties (pack of 100)	\$159.99	?	\$159.99

Total: \$31872.59

We still have \$98127.41

# Data Access

There is a big difference between choosing Ethernet cable over Token Ring have been the main contenders in Networking technology for a long period of time. FDDI, which use fiber optic cable and wireless system, that transmit data over radio waves, are very new technologies. The most widely implemented networking standard for office is Ethernet. The one that is most preferred is the wireless Ethernet because it is more efficient in home networks.



In addition, Ethernet is the most common network technology that is used in any local network and it can be easily identified by RJ-45 connectors on each of their cables, this resembles extra-wide telephone jacks. The Ethernet cable which are commonly blue, yellow or red, are a little more slender than a drinking straw that have a maximum range of 328 feet. The Ethernet can carry up to 10 megabits per second (mbps), which is 10 million bits of information each second. A fast Ethernet can carry up to 1000mbps. The data is sent in package, with each packet containing information to determine where the data is to be sent and a checksum that make sure that none of the data in the packet has been garbled or lost during transmission. Another reason why Ethernet is better than Token Ring is because it supports the transmission control protocol and internet protocol used by the internet, which is known as TCP/IP.

To add to the same topic, the major difference between Ethernet and Token Ring is the transmission. In this case, Token Ring is LAN, just like the Ethernet. However, the transfer of information is different. With token ring the computers cannot receive any information until they receive the token. The token can be passed around until the computer that is in need of the information receives it. This can be a major hassle for someone trying to receive important information.

In conclusion, LEON Corporation decided to choose Ethernet cable over Token Ring because there is no hassle in having to pass around a token to transfer important information to the workers. Ethernet will help the company keep the information safe and secure of hackers. This will make our company one of the best and trustworthy for this community.



## MAINTENANCE AGREEMENT

This NETWORK OPERATION AND MAINTENANCE AGREEMENT is made and entered into as of March 5, 2013 by and between **LEON Corp and 3D Hologram Design Inc.**

### RECITALS

WHEREAS, **LEON Corp** owns complete computer networks to install for divisions and have an ongoing technical support account for the company they are working for such as **Hologram Design Inc.** They desire as well to be contracted for operation, maintenance and management from **3D Hologram Design Inc.**

WHEREAS, **3D Hologram Design Inc.** provides maintenance such as *awarding the company with a contract of an account worth 4.5 million dollars annually and*

*management services for LEON Corp to install complete networks for their divisions in Orange Country, CA and has agreed to provide these services for these installations on the terms and conditions set forth in this Agreement.*

NOW THEREFORE in consideration of the mutual covenants, undertakings and conditions set forth below, the receipt and sufficiency of which are hereby acknowledged in the parties hereby agree as follows:

### ARTICLE I:

*Section 1.1: Agreement.* This Agreement consists of the terms and conditions set forth in the sections captioned by numbered article designations ("Articles").

If the terms and conditions of the Articles of this Agreement vary or are inconsistent with any portion of the Appendices, the terms of the Articles this Agreement shall control and be given priority, and the provisions of the Appendices shall be subject to the terms of the Articles. This Agreement contains the entire agreement between the parties and supersedes all prior agreements, whether oral or written, between the parties with respect to the subject matter of this Agreement. Neither party will be bound by or be deemed to have made any representations, warranties, commitments or other undertakings with respect to the subject matter of this Agreement that are not contained in this Agreement.



*Section 1.2: Effective Date and term.* This Agreement shall be effective and shall govern the rights and obligations of the parties from and after the date of this Agreement for a period of **2 years**.

## **ARTICLE II:**

*Section 2.1: Scope of Service.* **LEON Corp** shall (1) operate, maintain and manage the complete installation of the network on behalf of **3D Hologram Design Inc.** and (2) also perform the specific duties set forth in this Agreement if they are not otherwise required or stated.

*Section 2.2: Standards for Performance of the Services.* **LEON Corp** shall perform the Services required under this Agreement in a reasonable and efficient manner in accordance with (i) procedures manual and applicable warranties for the equipment, (ii) annual budget, (iii) all applicable laws, (iv) networking agreements, (v) requirements of any **LEON Corp** system and (vi) all insurance coverage for the systems.

*Section 2.3: LEON Corp's Personnel Standards.* **LEON Corp** shall provide as reasonably necessary all labor and professional, supervisory and managerial personnel as are required to perform the Services. Such personnel shall be qualified to perform the duties to which they are assigned and shall meet any requirements for installing a complete computer network. With respect to labor matters, hiring personnel, and employment policies, **LEON Corp** shall comply with all applicable Laws and a well act in a reasonable manner that is consistent with the intent and purpose of this Agreement.

*Section 2.4: Operating Records and Reports.* **LEON Corp** shall maintain, at a location acceptable to **3D Hologram Design Inc.** And keep record of the operating logs, records, and reports that document the operation and maintenance of the installation of the computer network, all in form sufficient to meet **3D Hologram Design Inc.'s** reporting requirements under this Agreement.

*Section 2.5: No Action.* Except where such action is expressly permitted by this Agreement, **LEON Corp** shall not take any action that would cause a default under this Agreement.

## **ARTICLE III:**

*Section 3:* **3D Hologram Design Inc.** shall be responsible for approval of the Annual Budget and installation of the computer network.



**ARTICLE IV:**

*Section 4: Payments.* As compensation to **LEON Corp** for performance of the Services hereunder, **3D Holograms Design Inc.** shall pay **LEON Corp** the Annual Operating Fee.

**ARTICLE V:**

*Section 5: Annual Project Operating Budget and Plan*  
Proposal at least 90 days before the beginning of each Contract Year, **3D Hologram Design Inc.** shall prepare and submit to **LEON Corp** a proposed annual budget for the Contract Year, established on a monthly basis. The proposed annual budget shall include separate operating and capital budgets.

**ARTICLE V:**

*Section 6: Installation Condition At End Of Term*  
Upon expiration or termination of this Agreement, **LEON Corp** shall remove its personnel from the installation and **LEON Corp** shall leave the installation in as good condition as it was on the Effective Date, normal wear and tear and casualty excepted. **LEON Corp** shall be paid all unpaid Reimbursable Costs.

**ARTICLE VI:**

*Section 7: Environmental Liability.*

(a) **LEON Corp** Liability. **LEON Corp** shall not be responsible for claims directly or indirectly related to hazardous materials present at the installation before the date of this Agreement, except to the extent acted with respect to such materials in a grossly negligent manner. **3D Hologram Design Inc.** shall defend, and hold **LEON Corp** harmless against such claims.

(b) Governmental Actions. If action is required at the installation to comply with any applicable environmental laws during the term of this Agreement, **3D Hologram Design Inc.** (with **LEON Corp's assistance**) shall be responsible for the costs of compliance.

**ARTICLE VII:**

*Section 8.1: LEON Corp*



**LEON Corp** agrees to hold in confidence for a period of 2 years or more from the date of disclosure, any information supplied to **LEON Corp** by **3D Hologram Design Inc.** or

others acting on its behalf. **LEON Corp** further agrees, to the extent requested by the supplier of such information, to require its subcontractors, suppliers and employees to enter into appropriate nondisclosure agreements relative to such information, prior to the receipt thereof.

**Section 8.2: 3D Hologram Design Inc.**

**3D Hologram Design Inc.** agrees to hold in confidence for a period of 2 years or more from the date of disclosure, any information supplied to **LEON Corp** by **3D Hologram Design Inc.** or others acting on its behalf, provided that to **3D Hologram Design Inc.** may disclose such information as is required by Lenders (including their agents and advisors), provided Lenders enter into appropriate nondisclosure agreements. **3D Hologram Design Inc.** further agrees, to the extent requested by the supplier of such information, to require its members and contractors to enter into such appropriate nondisclosure agreements.

**IN WITNESS WHEREOF**, the parties have executed this Agreement through their duly authorized officers as of the date set forth in the preamble to this Agreement.

**3D Hologram Design Inc.**

2700 Davenport Way

Newport Beach, CA 92874

By:

x \_\_\_\_\_

Date: \_\_\_\_\_

**LEON Corp**

LEON Corp



NETWORKING LEON IS THERE DAY OR NIGHT.

By:

X \_\_\_\_\_

Date: \_\_\_\_\_



## Web sources used

1. [www.floorplanner.com](http://www.floorplanner.com)
2. [www.midwest.com](http://www.midwest.com)
3. [www.cyberguys.com](http://www.cyberguys.com)
4. [www.caricom.org/jsp/projects/credp/o\\_m\\_agreement\\_template.doc](http://www.caricom.org/jsp/projects/credp/o_m_agreement_template.doc)
5. [www.dell.com](http://www.dell.com)
6. [www.smarthome.com](http://www.smarthome.com)