**Lucas Hess** lucashess09@gmail.com

424-386-5161 12 Martingale Drive, Rancho Palos Verdes, CA 90275

**Education and Professional Experience**

**Prepared on August 16th 2021**

***Cisco Certified Network Associate*** Achieved November 9 2020

*Earners of Cisco CCNA - Implementing and Administering Cisco Solutions (CCNA) have demonstrated knowledge and skills related to network fundamentals, network access, IP connectivity, IP services, security fundamentals, and automation and programmability.*

[*https://www.youracclaim.com/badges/6fdbc64b-93f2-45c9-83e5-5b1f1480ec08/public\_url*](https://www.youracclaim.com/badges/6fdbc64b-93f2-45c9-83e5-5b1f1480ec08/public_url)

As of July 2020 I changed my career focus from business and manufacturing to Computer Networking and other IT related focuses. This was due to my passion for working with computers and other electronics. My goals are to become a network administrator and go more in-depth of network automation and security. In addition, I plan to deepen my understanding in cloud computing.

I have practiced with my in-home lab and begun to teach myself skills such as building server computers that ran multiple Linux based Operating systems on TrueNAS. I configured two cisco switches that I used to allow these servers to communicate with the rest of my network. I also taught myself basic configurations of firewalls and how to create one in a Virtual Machine.

***Professional experience***

***Rocker Indusitries*** *5492 Bolsa Ave, Huntington Beach, CA 92649* June 2019 - July 2020

* Machined and manufactoring components for the space/military industry such as solenoids and brackets.
* Preformed necessary operations to see parts through the manufacturing stage such as polishing and deburring.

***Mobile Repair Tek*** *16010 Crenshaw Blvd Ste E Gardena* February 2018 - March 2019 *(****owner = Kevin Hidalgo 424.297.1204)***

* I Answered the phone and took questions regarding data recovery and phone/computer repairs and provided IT support
* I fixed computers and phones that had a variety of different problems such as Viruses, Data Recovery, and simple configuring software on Computers.
* I preformed minor sodering work on phones and computer motherboards.

***DMC Power*** 623 E Artesia Blvd, Carson, CA 90746 January 2017- November 2017

* I worked as a CNC lathe operator got some experience on mills and other various machines.
* I made power connectors that were used on large power grids all over the United States.
* I learned a lot about reading drafts and adjusting machine programs in addition to part inspection.

***Fast Cars, Ltd. 630 -*** *Mary Ann Drive, Redondo Beach, California 90278* - <http://www.fastcarsltd.com/> <http://www.tillackco.com/> ***310.930.6700 (Owner = Steve Tillack 310.345.6711)*** May 2015 – September 2016

* I was working as apprentice in the Fast Cars, ltd. automotive machine shop learning from master machinists and craftsmen who work on engine components with CNC equipment.
* Swept floors, cleaned cars, and preformed various labor tasks needed.

***Education***

***El Camino College - 16007 Crenshaw Blvd., Torrance, California 90506 -*** Currently Attending for a associates in computer information systems.

**CIS 142** Switching/Wireless Cisco 3 Fall 2021 (upcoming)

**CIS 141** Networking Microcomputers Spring 2021

**CIS 26** Using Microsoft Excel Spring 2021

**CIS 119** Computer security Forensics Spring 2021

**CIS 40** Personal Computer Networking Fall 2020

**CIS 140** Data Communications Cisco 1 Fall 2020

Bus-20 Business Management Spring 2020

Law 5 Business Law Spring 2019

Business 1b Managerial Accounting Spring 2018

CIS-13 Computer Information Systems Fall 2019

Business 1a Introduction to business Winter 2017

A Tech 1 Automotive Tech Fall 2016

ETEC 11 Introduction to Electronics Fall 2016

MTT 105 Conventional CNC Milling Fall 2016

MTT10J Numerical Control Graphics Programing Spring 2016

CADD 28 Parametric Solid Modeling Assem Spring 2016

MTT101 Introduction Conventional CNC Machining Fall 2015

**Awards and Recognitions** Boy Scouts of America Troop 257 – Achieved rank of Life Scout

**Professional Memberships and Credentials SME** – Society of Manufacturing Engineers, Student Chapter 153

***Digital Electronics 14***

*2014-2015* In this course, I learned the application of electronics in engineering technology. The topics studied include safety, Ohm’s Law, engineering notation, DC circuits, capacitance, inductance, reactance, impedance, analog and digital waveforms, basic motors, number systems, logic gates, Boolean algebra, flip-flops, shift registers, And micro-processors. Techniques in computer simulation and electrical measurements were stressed.

**Computer Science and Software Engineering**

*2013-2014* In CSE, I created apps for mobile devices, automate tasks in a variety of languages, and find patterns in data. I collaborated to create and present solutions that can improve people’s lives, and weigh the ethical and societal issues of how computing and connectivity are changing the world.

***Introduction to Engineering (IED) Design 12***

*Summer 2013* In IED, I gained a basic understanding of the design process used in engineering fields and the application of computer modeling software. Emphasis was placed on the design process, geometric relationships, visualization, technical sketching, modeling, model documentation, assemblies, and production processes.

***Principles of Engineering 10***

*2012-2013* In this course, we explored technology systems and engineering processes to learn how math, science, and technology impact our society. The topics introduced the design process, communication and documentation, engineering systems, statics, properties of materials, quality assurance, materials testing, and engineering for reliability.

***Manufacturing Technology 70*, *Integrated Robotic and Automated Technology***

*Fall 2012* In this course robotic and automation applications with emphasis on imbedded electronics, micro-controller programming, motors, and drive trains were taught. Additional topics covered included electronics theory, electro-mechanical fabrication, sensors, manufacturing materials and processes, and careaer fields in which robotic applications are used. I constructed, programed, and tested a vehicular process robot.

***Construction Technology 107abcd, Cabinet and Furniture Making***

*Fall 2011*In this course I learned to elements of cabinet and furniture design. Properties of wood and wood products, fabrication and installation of house cabinets and fabrication of furniture were covered.

***Machine tool Technology105 Conventional CNC Milling***

Fall 2016 In this course we learned about programing CNC mills and how they operate. I learned on HAAS machines and did various machining projects. We also learned how to inspect the parts we milled.

***Special Projects***

***Summer 2014 – Learned about real world projects at EPIC Cal Poly San Luis Obispo Engineering Camp***

<https://epic.calpoly.edu/about/>

***Summer 2012 - Attended the STEM Training and Robotics Technology (START) program at El Camino College, Torrance, CA, completed a successful 4-week summer session.***