

EMMANUEL OLIVO

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SUMMARY

Computer engineer well-versed in troubleshooting and repairing malfunctioning hardware and software. Experienced in database management, as well as electrical, digital and very large scale integrated circuitry.

EDUCATION

The University of Texas Rio Grande Valley

Bachelor of Science in Computer Engineering (Hardware track)

Edinburg, TX

December 2016

GPA: 3.26

- Relevant Coursework: Computer Architecture; Introduction to VLSI design; Database Design & Implementation; Microcontroller & Embedded Systems; Microprocessors Systems; Digital Systems; Object Oriented Programming in JAVA; Electrical Circuits; Algorithms & Data Structures and Operating Systems

SENIOR DESIGN PROJECT

3D Printed Smart Drone

Spring 2016 – Fall 2016

- Constructed an intelligent and low cost Unmanned Aircraft System (UAS) with features such as an obstacle avoidance system that is only present in high end devices.
- Implemented successfully obstacle avoidance algorithm using an Arduino Board by taking the echo returns from ultrasonic sensors as inputs and communicating with flight controller system to change motors' speed accordingly.
- Designed a Printed Circuit Board layout in order to connect components such as Flight Controller, Arduino Board, Ultrasonic Sensors, Electronic Speed Controllers, Motors and Receiver.
- Used 3D printing technology to create an airframe to reduce cost and weight while increasing battery life and flight time.
- System is 80% cost efficient compared to similar devices currently in the market.

EXPERIENCE

NX Game

Veracruz, Mexico

Sales Assistant & Customer Service

2007 – 2008

- Answered Client inquiries from stock availability and details of offers to a product's price.
- Researched and provide Client centric solutions to ensure quality a Client experience.
- Utilized cross functional knowledge of the repair process in order to efficiently provide customer feedback and address customer concerns.
- Effectively communicated verbally in a professional manner while obtaining all necessary details of their concerns.
- Understood available products' functionality and specifications to provide Client with as much information as possible.

CERTIFICATIONS

Web Development Introduction course by **Universitat d'Alacant**

Mobile App Development course by **Universidad Complutense Madrid**

SKILLS

Languages: Spanish, English and some Japanese.

Hardware: Expertise in electrical and digital circuitry; Microcontroller systems; Desktop and laptop repair; Printed Circuit Board layout design and VLSI design.

Computer Languages: C/C++; JAVA; SQL; Assembly; Pascal; HTML/CSS and Verilog/VHDL.

Software: Cadence; Oracle Database; SQL Developer; Visual Studio; Android Studio; PsPice; EAGLE; Arduino IDE and Xcode.