

Juan Ignacio Guimarey

jguimarey@outlook.com ~ (786)773-0371 ~ 10012 NW 7th St. Miami, FL 33172
<https://www.linkedin.com/in/jguimarey/>

CAREER OBJECTIVE

Seeking an analytical and problem-solving software engineering position to improve my skills in computing software and hardware. Open to remote positions and relocation. 4 year of OPT approved working conditions.

WORK EXPERIENCE

SOFTWARE ENGINEER - APEX SYSTEMS (Miami, FL)

August 2019 - Present

- Hands on C++, C# and JavaScript programming using Windows Forms applications
- Experience redesigning and dramatically simplifying an overly-complex user interface, while preserving all functionality
- Knowledge in producing, fine-tuning and deploying real-life software for Windows 7 onwards

EDUCATION

Florida International University (Miami, FL)

January 2016 - May 2020

- Bachelor of Science Graduate in Computer Engineering
- **3.75 GPA** Magna Cum Laude, Dean list 2016-2020, NSCS scholar honors member & Certificate

PROJECTS

Senior Design Project

August 2019 - April 2020

- Team Leader in planning, designing and execution of a High-output full spectrum LED lightning system usable for growing plants and corals in an aquarium with a team of 5 students.
- Leadership opportunity to professionally plan a real-life product designed for target customers.
- Analytical thinking and teamwork focusing all edge cases and design implementation to unravel an unexplored market.
- Project consists of all areas of computer and electrical engineering such as MCU, database information, external memory, PCB design, phone application, power supply, heatsink design, customer satisfaction and more.

Machine Learning & Deep Learning Research in FIU

January 2017 - May 2018

- Python-based programming in Anaconda and Keras software using Spyder IDE.
- Critical thinking and analytical skills in exploring areas of interest and improvement in Neural Networks and CNN.
- Coordination with other professionals in understanding Machine Learning algorithms and human neuron replication with various hidden layers.

Binary Calculator using Embedded System

August 2018 - November 2018

- Planning, design and programming of a binary calculator using Xilinx Platform studio and Xilinx Software Development Kit as software and Microblaze processor as hardware.
- Team coordination in scheduling assignments and distribution of workload in 3 weeks deadline.
- Programming of drivers using C language, covering ALU operations, 2's complement and division by 0.

COURSEWORK

- Concentrations in Big Data, Machine Learning, Deep Learning and feature Engineering with multiple algorithms.
- Concentrations in Programming, Data structures, HTML and OOP Languages (C, C#, C++, Java, JavaScript, Python, .net Framework)
- Concentrations in Computer Design and Architecture involving software and hardware areas of microcontrollers

SKILL SET

- **Operating environment:** Windows, Mac, Assembly 8086
- **Programming:** OOP Languages, Artificial Intelligence, .net Framework
- **Software:** AutoCAD, SolidWorks PCB designs with KiCad, Multisim, Matlab, Xilinx, Wolfram *Mathematica*, XPS SDK, MS Office softwares, Arduino, embedded microcontrollers, AWS -self taught, DevOps-self taught

WORKSHOPS AND VOLUNTEERING

FIU Car Motorsport club – Electrical and data acquisition team member

August 2018 - May 2019

- Microcontroller design and programming in C language to receive information from satellite and record data
- Keep track of car variables such as pressure in wheels, speed, direction, heat and others

SHELL HACKATHON

September 2018

- Project participation and volunteer