Joseph D. Moreno

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EDUCATION

Bachelor of Science in Computer Engineering, University of South Florida, Tampa, FL — Aug 2020
GPA: 3.27

SKILLS

Programming Languages | HDL:	Python, TypeScript, SQL, LabVIEW, C, C++, C#, Java | VHDL, Verilog
Web Development:	Django, React, HTML, CSS
Software/Environments:	Git, MySQL, nginx, MinGW, Visual Studio, Node.js, Vivado 2019.2, EasyEDA, FreeCAD
Platforms/Operating Systems:	AWS, Windows 7/8/10/11, Android, Linux

WORK EXPERIENCE

Software Engineer II - Global ETS, Odessa, FL — Nov 2020 – Present

- Automated electronic testing using LabVIEW (QMH and actor framework).
- Web app full-stack development; Django-React, deployed on AWS EC2 instance.
- Circuit design, sent out for PCB fabrication.

KEY PROJECTS

Please visit **https://josephmoreno.github.io** *for a more complete view of my projects.*

Tracking System, Global ETS — Jan 2022 – Present

- Server-client programs for communicating real-time information within the company.
- Implement requirements from users regularly.
- Tree data relations, stored in closure tables.

Testing with Vision-Motion Automation, Global ETS — May 2021 – Dec 2021

- LabVIEW program to sequence the control of multiple instruments, including cameras and electronic testing equipment.
- Created C# DLL from the Dobot SDK to control their robot arm through LabVIEW.
- Deep learning model to visually identify electronic package defects.

SDRAM (MT48LC2M32B2) Tester, Global ETS — Apr 2021 – Oct 2021

- Studied a datasheet, documented points for controlling the chip, and planned out a circuit.
- VHDL state machine for using an FPGA as the controller.
- LabVIEW program to receive signals from the FPGA and log passed / failed chips.

Chip-8 Emulator, Personal Project — May 2020 – Jun 2020

- SDL library to handle keystroke input and graphics/audio output.
- Implemented Chip-8 architecture as software (written in C++).
- Bitwise operations used to decode and execute Chip-8 ROMs.

CSE Virtual Assistant (Conversational AI), Microsoft and USF — Jan 2020 – May 2020

- Connected QnA Maker knowledge base.
- Created a UI to manage the virtual assistant's Azure Storage database.
- Deployed the virtual assistant using Azure resources and Visual Studio.