Jose Daniel Garcia Carrillo

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Education

Colorado State University

Fort Collins, CO

B.S. Computer Science

Graduated May 2022

- Relevant Coursework: Software Engineering, Machine Learning, Big Data, Object Oriented Design, Operating Systems, Algorithms and Optimization, Low-Level Programming, Compilers, Database, Computer Architecture, Assembly

Front Range Community College

Fort Collins, CO

Associates of Science

Graduated May 2019

CETI Colomos Recognition as a Technologist in Automation and Instrumentation

Guadalajara, Jal Graduated May 2015

- Relevant Coursework: Digital Circuits, Instrumentation, Technical Drawing, High Power Circuits, PLCs, Microcontrollers, Pneumatics, Hydraulics, Process Controls, Industrial Robotics, Industrial Calibration, Thermodynamic Processes

Technical Skills

Programming Languages:

Bash, C, Matlab, SQL - Procedural

- Object-Oriented C++, C#, Java, JavaScript, Python, MicroPython, VB, Rust

- Functional Scala, Lisp, Elisp, LTEX

Libraries and Frameworks:

- Web Based ReactJS. NodeJS

Mechatronics:

 Microcontrollers Pic, Atmel, Xtensa, ARM - PLC Allen Bradley, Sismatic

- Communication SPI, CAN, I2C, I2S, BLE, WiFi, RS232, Sockets, Websockets, WebRTC

- Other Skills 3D printing, SMD soldering, Electronics Diagnostics, CNC Routing, Pneumatics, Hydraulics

Software:

FluidSIM, AutoCAD, RSLogix, EasyEDA Automation & Design Unix-based OS, Emacs, Windows, Git Other

Work Experience And Notable Projects

Hardware and Software Engineer — Research and Development

Fort Collins, CO

Colorado State University and Vaisala

Jan 2022 - Jul 2022

- Undergraduate Electrical and Computer Engineer, Radar Data Acquisition Development and Design
- Worked with GPS-synchronized broadband data acquisition system for earth science applications
- Achieved to designed and develop the prototype for high speed data analysis with reduced design complexity

Pi Bot • Github.com/RetroDISTORT/Pi-Bot

v3.0.0 Released Aug 2022

- Designed a modular Raspberry Pi-based robot with machine learning capabilities through WebRTC (video/audio)
- Includes capability for remote access through web-sockets or the mobile friendly web-app
- Built with Python written applications such as web radio, music spectrum analyzer, Bluetooth speaker, and more

Dawn and Dust v2.1.0 Released Jun 2021

- Github.com/RetroDISTORT/Dawn-and-Dust
 - Android game made with game maker studio using a version of C#
 - Achieved to build a top-down-view puzzle game with google play integration

v3.0.0 Released Jan 2021 **Smart Watch**

- Github.com/RetroDISTORT/Smart-Watch
- ESP32-based smartwatch for IoT, testing, home automation, mobile apps, and more
- Designed from the bottom-up using C and micro python for the applications and AutoCAD for the case
- Successfully built a working prototype from component selection and PCB design to coding applications