

Jose Daniel Garcia Carrillo

3573 Tradition Dr. – Fort Collins, Colorado – United States

■ +52 1 33 3409 9667 • ✉ daniel95@rams.colostate.edu • ⚙ RetroDISTORT

Education

- **Colorado State University** Fort Collins, CO
Graduating May 2022
 - *B.S. Computer Science*
 - 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
Graduated May 2019
 - *Associates of Science*
- **CETI Colomos** Guadalajara, Jal
Graduated May 2015
 - *Recognition as a Technologist in Automation and Instrumentation*
 - 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:**
 - Procedural Bash, C, Matlab, SQL
 - Object-Oriented Arduino, C++, C#, Java, JavaScript, Python, MicroPython, VB, Rust
 - Functional Scala, Lisp, Elisp, L^AT_EX
- **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
 - Other Skills 3D printing, SMD soldering, Electronics Diagnostics, CNC Routing, Pneumatics, Hydraulics
- **Software:**
 - Automation & Design FluidSIM, AutoCAD, RSLogix, EasyEDA
 - Other Photoshop, Unix based OS, Emacs, Windows

Work And Notable Projects

- **Undergraduate Research Project** Fort Collins, CO
January 2021 – Present
 - *Colorado State University and Viasala*
 - ECE Radar Data Acquisition Engineer Development and Design
 - GPS-synchronized broadband data acquisition system for earth science applications
 - Designing and develop the prototype for data analysis and engineering technical work in Radar Laboratories.
- **Smart Watch** v3.0.0 Released Jan 2021
 - *RetroDISTORT/Smart-Watch*
 - Based on ESP32, PCB, design, CAD, software, UI, and peripherals all designed from scratch
- **Dawn and Dust** v2.1.0 Released Jun 2021
 - *RetroDISTORT/Dawn-and-Dust*
 - Android game made with game maker studio
 - Top-down-view puzzle game with google play achievements
- **Boo Bot** v1.0.0 Released Jan 2020
 - *Shizcow/BooBot*
 - Raspberry Pi based robot, PCB layout, Schematic, code, Twitch interface, CAD files
- **Arduino-Interpreter** v1.0.0 Released Jun 2021
 - *RetroDISTORT/Arduino-Interpreter*
 - Runtime hot-reloading interface for embedded Arduino systems