

Jose Daniel Garcia Carrillo

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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
- **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
 - Object-Oriented Arduino, C++, C#, Java, JavaScript, Python, MicroPython, VB
 - 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
 - PLC Allen Bradley, Sismatic
 - Other Photoshop, Unix based OS, Emacs, Windows

Notable Projects

- **Smart Watch** v3.0.0 Released Jan 2021
 -  *RetroDISTORT/Smart-Watch*
 - Esp32 based Smart-Watch
 - 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
- **Platformer Game** v1.0.0 Released Jun 2021
 -  *RetroDISTORT/Platformer-Game*
 - Base code for platformer game written with game maker studio
 - Basic collision, movement, power-up, physics, and customization
- **Arduino-Interpreter** v1.0.0 Released Jun 2021
 -  *RetroDISTORT/Arduino-Interpreter*
 - Runtime hot-reloading interface for embedded Arduino systems