

# 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, 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<sup>A</sup>T<sub>E</sub>X
- **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*
    - 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
- **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