

# Jose Daniel Garcia Carrillo

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## Education

- **Colorado State University** **Fort Collins, CO**  
*B.S. Computer Science* *Graduating May 2022*
  - **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**  
*Associates of Science* *Graduated May 2019*
- **CETI Colomos** **Guadalajara, Jal**  
*Recognition as a Technologist in Automation and Instrumentation* *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:**
  - Procedural Bash, C, Matlab
  - Object-Oriented Arduino, C++, C#, Java, JavaScript, Python, MicroPython, VB
  - 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*
  - 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