Andres Ruiz

Lynwood, CA | [linkedin](#) | [GitHub](#) | [Website Project](#) | (323)798-2390 | andres.ruiz3561@gmail.com

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Skills

HTML5, CSS3, JavaScript, Python, **C++**, C, **React**, Node, Postgres, Express, Verilog, Azure web, REST+GraphQL API, Git, Excel VBA, Google Apps Script, Soldering, Solidworks, Keyshot rendering, 3D Printing   (All projects can be found on GitHub!)

Experience

Valtra Inc, Santa Fe Springs- **Engineering Team, Data Analyst Intern**   *Employed(2020-2023)*
- Coded a **full stack PERN** site hosted on **Azure** to automate tasks through **GRAPHQL** calls with **Shopify API**
  - Designed a Frontend to enter Shopify orders through **React** to **Node/Express** Backend w/ GRAPHQL
  - Saved backup of product information in **PostgreSQL database** grabbing from Shopify API weekly
- Designed a **Python** Selenium app to input 100+/day orders from a Shopify CSV to a new shipping management
- Designed new welding products using Solidworks, and prototyped with a 3D printer.
- Setup (**RAID**, File structure, etc.) & managed a **NAS Server** to store and share company files
- Organized a database using Tadabase and Excel Power Query + VBA for production and CNC tracking
  - Improved tool requisition times and CNC Mill/machinist efficiency

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Activities

The Odin Project   *(2023-Now)*
- Completed multiple projects to perfect the basics of Front End development with **React** and **HTML**
- Worked on perfecting backend capabilities with NodeJS, Express, and MongoDB projects

NASA Student Launch, Cal Poly Pomona   *Payload Engineer(2020-2021)*
- Designed and printed a payload to absorb impact in **Solidworks** made with engineering filaments after ejection from rocket
- Programmed payload to auto level, capture a panoramic picture and upload autonomously with **Python**

ASME Student Design Competition   *Team Lead (2020-2021)*
- Designed a robot to pick up 0.5kg weights on a 1.5V battery on **Solidworks** created from Carbon Fibre
- Programmed the robot with **C++** using an Adafruit itsybitsy and motor drivers

ULA Student Intern, Downey High School   *Team Lead (2018-2020)*
- Designed a foldable 4" drone using Autodesk Inventor to fit inside a 4" cylinder tube on a ULA Rocket
- Assembled electrical components (flight controller, GPS, etc.) to suit communication and autonomous needs
  - Operated under FCC regulation with long-range capability to provide mission details to home base
- Programmed using Mission Planner to fly drone autonomously to coordinates after ejection from rocket

First Robotics Club, Downey High School   *Team Lead (2018-2020)*

- Led programming team using **Java** to perform manual and autonomous movements using a **PID algorithm**
- Led design team to manufacture a robot using **Autodesk Inventor** with CNC mill and power tools

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EDUCATION

Cal Poly Pomona GPA: 3.3   *(2020-2024)*
- Bachelor of Science - Computer Engineering
  - Coursework: Operating systems, Data structure and Algorithms, C++, C, Microcircuits,Verilog