

Daniel Martinez-Gamboa

Redding CA, 96001

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To whom it may concern,

My name is Daniel Martinez-Gamboa. I am from Sacramento, California. I am an Engineer to the bone currently and working as a Civil Engineer. I am now drawn to the Software Engineering world and am pursuing full-time employment.

Engineering has my passion by allowing me to not only grow my knowledge, but also myself. I remember my very first book I had, purchased by my father, a "Big Book of Questions and Answers." It was a huge encyclopedia that covered all topics, health, science, physics and biology. I was forever fascinated and anything I could get my hands on to learn more, I never stopped until it was mine. My eagerness to learn has followed me and encouraged me to pursue my bachelors and to find a place where that eagerness is fed and welcomed. As life has continued, I have fostered and evolved my enthusiasm to work for me in my Engineering career. I have learned the values of positivity, diligence and thorough communication both private and professional.

I am ready for a new chapter in software, and I hope you will provide me the opportunity to continue this path with myself, and impact those around me positively.

Sincerely,

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Objective: Obtain a full time Software Engineering position

Profile

- Natural leader and speaker, mature and goal orientated
- Experienced in working with teams of engineers and managers in a variety of environments
- Outstanding visual-spatial imagination, great for any type of engineering project
- Ever-growing knowledge base from a wide range of engineering disciplines: Software, Civil, and Mechanical

Skills

- **Languages/Libraries:** Python, Jest, Javascript, React.js, Node.js, Express.js, git, HTML/CSS, beautifulsoup4, Scrapy, Arduino IDE, Matlab, VBA
- **Database Tools/DevOps:** MongoDB, PostgreSQL, Neo4j, Redis, Hasura, Docker, Digital Ocean
 - **Software Engineering Design:** MVP/Minimum Acceptance Criteria Docs, REST/CRUD API, Web Applications, Version Control, Testing, Recursion, Sort Algorithms, Async/Await
 - **Civil Engineering Design:** Bridge Design, Falsework Design, Foundation Design
 - **Mechanical Design:** HVAC Design, Mold Design/Manufacturing, Closed Loop Control Systems Design, AGMA Gear Stress Design

Projects & Contracts

- **Discord PraiseMe Bot & RoastMe Bot (Python)** Bots that reply with praise/roasts when tagged in a discord message
 - Designed an OOP style client while utilizing asynchronous calls to send messages to the server.
 - Implemented container using Docker to run the application with Discord API tokens privatized as environment variables.
 - Load data from .CSV & .JSON files to use as replies for messages. This allows for new users of bot to add their own custom responses.
 - Write unit tests using built-in python libraries to ensure applications functions are working correctly between versions.
- **Typing Test (JS/Node)** Node.js server application. Uses Express.js to serve static css, html, & javascript
 - Implement a local server using express.js library to host the application and serve static assets.
 - Utilized functional programming style javascript scripts to run application logic with event handlers.
 - Design functions to manipulate DOM for loading test sentence, highlighting current words, showing completion and WPM output.
- **Closed Loop Feedback Controls (Arduino)** – Design and Coding Lead for the following Projects:
 - Temperature Sensor - Design, tested, calibrated and demonstrated sensor to measure temperature of water to LCD output
 - System Modeling and Control - Utilize Arduino IDE to control pulse width modulation power output, and hold steady temperature within model HVAC system using PID control.
 - Modeling and Control of Unstable System – Simply supported beam balancing a ball in the center using Arduino IDE and PID Control.
- **Redding to Anderson Six-Lane (\$150 mil.)** - Structure Representative
 - Lead field inspector for construction contract to widen 11 miles of interstate-5, rehabilitate 4 existing structures, and construct 2 new bridge structures over 3 years.
- **LAWA Utilities and LAMP Enabling Project (\$4 bil.)** – Inspection – Utilities and Structures modifications for the Landside Access Modernization Project within LAX.
- **Midfield Satellite Concourse North (\$1.2 bil.)** – Inspection – Design/Build contract for new terminal with 12 gates within LAX
- **Plastic Injection Machine** – Locking Mechanism Team – Statics Calculations Lead - Design/manufacturing/assembly locking platen and mold

Work Experience

- **Transportation Engineer - (Structure Representative - Civil Engineering)**
Various Locations, Shasta County CA May 2019 - Present
Responsible for the technical and administrative control of the structure elements of a Caltrans administered project during construction. Caltrans contracts frequency involve structure work for: new bridges, bridge widenings, tunnels, box culverts, retaining walls, and overhead signs. Work includes communication with contractor personnel and fellow engineers on matters of: administrative issues, construction methods, interpretation of specification, technical issues, and contract change orders. Other responsibilities include maintaining project records for structure work, preparation and coordination of contract change order approvals, timely payments to the contractor, and preparation of as-built plans and project completion records.
- **Construction Inspector - (Mechanical/Plumbing/Electrical Inspector)**
Los Angeles World Airports, LAX, Los Angeles, CA April 2018 - May 2019
Provide Inspection and quality assurance as a representative of the owner on various sites. Work includes daily reports, logging manpower, weather, equipment, and document control during construction. Attend meetings with Contractors, Quality Control, Design Team and Engineers daily and weekly throughout the project. Past projects include parking structure modifications, installing utility conduits, and water line installation in various locations throughout the airport. Construction contract administrator for contracts ranging from several million, to over a billion dollars.

Education

- B.S. in Mechanical Engineering
California State Polytechnic University Pomona
- Engineer in Training Certification – EIT #165563

Honors

- President's List, **Cal Poly Pomona** Academic Years 2012-2013 & 2013-2014