

FRANCISCO AVINA

Modesto, CA 95351

209-204-1206 • frankieavina@gmail.com

github.com/frankieavina • www.linkedin.com/in/frankieavina

TECHNICAL SKILLS

- **Computer Software and Frameworks:** Matlab, Multisim, Matematica, Quartus, Qsys, ModelSim, MPLab IDE, Git/Github, Angular, Express, Koa, MongoDB and MySQL
- **Languages:** Assembly, Verilog, C, C++, HTML, CSS, JavaScript, Typescript, SQL
- **Equipment Skills:** PIC16F1947, ATmega 328, Altera DE2 Cyclone 2 and Cyclone 4.

PROJECTS

- **WarCraft 3 Community Review Web App:** Designed Register and Login functionality in Angular, Node.js (express.js framework) backend with MySQL database that contained user authorization using JWT authorization.
- **Fitnits Application:** Worked in a team where I was in charge of creating a dashboard with Angular that would interact with a server and request information to display in the dashboard as well as push information to the server to store in our database.
- **Car Inventory Web App:** Developed a MEAN Stack Web Application for inventory use. Users can select, add, edit, and delete car inventory. Utilizes Node Js with KOA framework, MySQL for the database, and Angular for the frontend.
- **Demonios Bucking Bulls Website:** Developed a front-end application to not only promote their business but to also keep track of inventory as well letting future customers take a look at their cattle, future events, and products. Tools and language used to develop this application are HTML, CSS, Bootstrap, PHP, Vanilla JavaScript and HostGator to deploy the application. www.losdemoniosapretalados.com
- **Car Parking Notification Simulation Group Lead:** Lead a team through software engineering development procedures utilizing Agile software development . Built a Car Parking Simulation Application in C++ intended to improve parking in large structures. Built a CLI type of interface with XML file system to read and write data.
- **Wireless Irrigation Control System:** Built a closed loop system using and calibrating a Watermark soil humidity sensor and transmitted data wirelessly using a RF transmitter and receiver. Used an ATmega328 microcontroller to interface with sensor and RF signals as well as process data incoming to turn on water pumps.
- **VGA and SD Card Passcode Authentication System:** Designed a FPGA program that used VGA, LCD, SD card modules along with interrupts, and PIO's to design a user login authentication system using Altera's DE2 board. Softwares used was University Monitoring Program, Quartus 2, and Qsys. Programming languages included verilog, assembly, and C++.

EDUCATION Bachelor of Science, Computer Engineer

December 2016

California State University of Fresno—Fresno, CA

Specific coursework topics include Computer Architecture, Computer Communication, Programming, Electronics, Embedded Systems, Digital Signal Processing and Computer Networking.

Software Developer Academy

April 2021

Bay Valley Tech Academy—Modesto, CA

Web application development course where HTML, CSS, JS, and Angular is taught to design front end applications. Learn how to work as a team and help other classmates.

EXPERIENCE**Software Developer Intern**

April 2021- Present

Bay Valley Tech Code Academy—Modesto, CA

- Develop Web applications and Websites using tools such as HTML5, CSS, Typescript, Javascript, Angular, Express, Koa, MySQL, MongoDB, and Discord.js API. Interfaced with a development team to ensure application met the requirements.

Retail Sales Associate

July 2020-January 2021

Autozone—Ceres, CA

- Processed all sales transactions accurately and in a timely fashion. Maintained visually appealing and effective displays for the entire store. Communicated information to customers about product quality, value and style. Implemented vehicle diagnostics testing: Battery, Starter, Alternator. Replenished floor stock and processed shipments.

Administrative Assistant

February 2016-December 2019

Demons Bucking Bulls Cattle and Rodeo—Patterson, CA

- Utilize strong communication and interpersonal skills to set up bull riding events, assist customers with any concerns or questions they have. Along with that, I collected entrance/parking fees and made sure all the money was accounted for.

ACTIVITIES**Education Volunteer**

Adkinson School Elementary—Ceres, CA

- Translating for teachers on back to school nights and helped during the summer receiving calls and filing papers.

IEEE member

CSU Fresno—Ceres, CA

- Collaborated with members of a professional organization as well as interacting with students of the same career.
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