



# Marco Martinez

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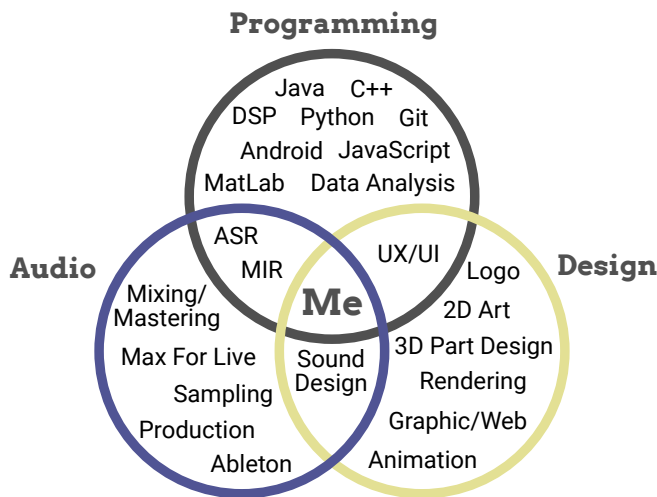
## About Me

**I am a software engineer, data scientist, and creative problem solver who delivers effective solutions through careful analysis and user focused design.**

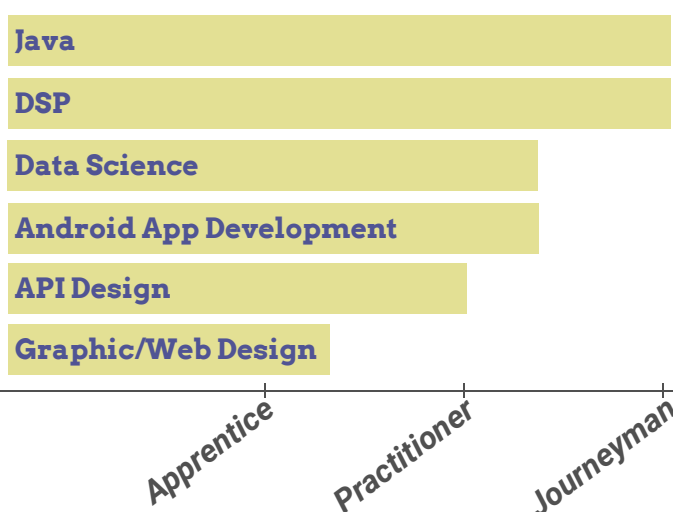
With a background in software engineering and embedded systems, and a passion for audio and electronic design, I have worked with data ranging from music and speech to bio-metric and traffic.

I believe that the best solutions are achieved by always designing for the customer. Utilizing modern software technologies, data analysis, and aesthetic design, I strive for excellent communication, reliability and user experience delivery.

## Summary



## Top Skills



## Education & Experience

### May '18 - Present

#### Freelance Software Engineer

##### Various Clients - Denver & Fort Collins, CO

Atlantis Aquatics - Android Developer and Software Engineer, built an Android app that interfaces with IoT devices via a RESTful API and MQTT. Worked with engineering team to optimize ESP firmware design and implement proper security measures

Rollins Consult, LLC - Data Scientist and Graphic Designer, work with traffic engineer to generate and present traffic impact data for various cities and real estate developers in Northern Colorado

Alt Ethos - Project Manager, Designer, and Hardware/Software Engineer using light, sound and creative technology to create interactive installations that generate excitement, awareness, and engagement for our customers

### Summer '18

#### Master's of Science, Mechanical Engineering

##### Colorado State University - Fort Collins, CO

Software Engineering Thesis - Development of an Open-Source Java Library for Sensory Substitution Systems

### July '17 - May '18

#### Creative Works Award

##### CSU Ventures

Awarded \$12,000 to complete a Java library for sensory substitution applications

Built an Android Library called "Tactile Waves" that provides a DSP toolbox and API for pre-processing, feature extraction, and classification of speech signals, as well as communication to sensory substitution hardware via Bluetooth

### July '15 - February '17

#### Software Engineering Contractor

##### Sapient, LLC - Fort Collins, CO

Software/Project Engineer at local start-up company specializing in bio-metric devices and brain-computer interfaces. Developed bio-metric monitoring systems in Java and C++, using RESTful APIs to store/retrieve data and send text message alerts

Contributed to the research and software development of VetMeasure's MeasureOn! bio-metric monitor harness for dogs

### June '15 - November '17

#### Data Analysis Contractor

##### Stantec - Denver, CO

Analyzed GPS traffic data to adjust and maintain signal timings of several streets around Denver and Greeley, CO

Built a Python program to automatically analyze large sets of GPS data and generate a collection of Excel spreadsheets with summary tables and graphs for each traffic corridor