

JAVIER RODRIGUEZ



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Los Angeles, CA

EDUCATION AND TRAINING

MAY 2024

**Master of Science,
Computer Science**
Georgia Institute of
Technology

JUN 2021

**Associate of Science,
Computer Science**
Long Beach City College

JUN 2013

**Bachelor of Science,
Mechanical Engineering**
University of California,
Santa Barbara

APR 2020

**Front End Developer
Nanodegree Program**
UDACITY

LANGUAGES

Python (Proficient)
JAVA (Proficient)
HTML (Proficient)
CSS(Familiar)
JAVASCRIPT (Familiar)
C++ (Familiar)

SKILLS

3D PRINTING
CAD
CROSS-FUNCTIONAL
TEAM
DATA ACQUISITION
DESIGN DEVELOPMENT
DRAFTING
FAILURE ANALYSIS
LEADERSHIP
LEAN OPERATIONS
PLASTIC PART DESIGN
PROTOTYPING
QUALITY ENGINEERING
SHEET METAL
TASK PRIORITIZATION
TECHNICAL REPORT
WRITING
VERIFICATION AND
VALIDATION TESTING

PROFESSIONAL EXPERIENCE

Data Engineer Intern: OCT 2023 – DEC 2023

LOS ANGELES KINGS, AEG | LOS ANGELES, CA

Supported the Business Intelligence team on National Hockey League(NHL) team.

Responsibilities

- Sourced data through web scraping and connecting to APIs
- Supported Business Intelligence team by creating data products used to predict and recommend strategic sports decisions
- Applied data engineering principles, such as ETL, to solve problems

MANUFACTURING ENGINEER: SEP 2018 – NOV 2019

FLIR SYSTEMS | SANTA BARBARA, CA

World leader in the design, manufacture, and marketing of thermal imaging infrared cameras; \$1.8B revenue in 2018

Responsibilities

- Process owner of cryogenic cooler assembly line
- Lead process improvement activities including testing feasibility through pilot builds.
- Inspect, troubleshoot, and repair quarantined cryo-coolers.

Accomplishments

- Reduced and maintained backlog of quarantined material by 90%
- Developed repair process of non-compliant material saving approximately \$60,000 that would have been scrapped.
- Procured simplified assembly line tooling, reducing tool cost by 80%
- Led the implementation of an electronic traveler/router allowing for better data gathering and decision making.

MECHANICAL ENGINEER II: FEB 2016 – SEP 2018

ASTRONICS – PECO | PORTLAND, OR

Leading provider of aerospace interior components and systems; \$803M revenue in 2018

Responsibilities

- Lead system-level designs of Passenger Service Units (PSUs) for Boeing 777X aircraft, through fast-paced product development cycles
- Design mechanical components and assemblies with an emphasis on manufacturability and assembly
- Provide leadership and mentoring to more junior personnel

Accomplishments

- Developed three major assemblies ensuring specifications were met through weekly technical meetings with customer
- Reduced assembly cycle times of new designs by up to 50% using DFA techniques during design development, when compared to legacy products
- Led Verification and Qualification testing on assemblies and used results to drive design improvements
- Supported Preliminary and Critical Design Reviews with our customer at different stages of the development cycle ensuring no impact to schedule
- Fostered new relationships with outside suppliers reducing prototype lead times by up to 75% and cost by approximately 47%
- Provided leadership and mentoring to up to three junior personnel on the Design Engineering team at any one time

DEVICE ANALYSIS ENGINEER: AUG 2013 – MAR 2015

ALLERGAN MEDICAL | SANTA BARBARA, CA

Global, technology-driven multi-specialty health care company; \$15.1B revenue in 2015

Responsibilities

- Support Device Analysis Lab operations
- Coordinate Engineering Investigations with Costa Rica Engineering and Santa Barbara Complaint Handling
- Lead projects for operations improvement

Accomplishments

- Completed timely root cause analysis of Engineering Investigations, eliminating false signals from medical device analysis
- Coordinated lab operations during Lab Supervisor absence, ensured continued support of customers through operation continuity
- Performed database queries and generated Business Intelligence reports to support Engineering Investigations and corrective action decisions
- Supported Engineering Investigations from Costa Rica manufacturing site enabling them to complete their investigations on time
- Developed new documentation delivery process, completely eliminating any late-reports to FDA