

# Andres Ruiz

Los Angeles, CA 90002 · (909) 659-4977 · engineerandres09@gmail.com

## **PROFFESIONAL PROFILE**

A leader and team member with determination and drive. Highly adaptable and optimistic individual able to accomplish challenging tasks. Fast learner with ability to work in multiple areas. Creative thinker with a strong record of combining hand on experience and analytical abilities.

- Able to quickly learn from and teach others
- Streamlines processes using organizational skills
- Proficient in Solidworks 2015, 3DEXPERIENCE DELMIA, Catia V5 & V6, Enovia, and Microsoft Office (Excel, Word, PowerPoint, Project)
- Experienced hands on with ability to diagnose and repair electromechanical systems.

## **EDUCATION**

**University of California Irvine** *Bachelor of Science, Mechanical Engineering*

**March 2016**

**University of California Los Angeles Extensions** *Full Stack Developer Certification*

**May 2020**

## **ENGINEERING EXPERIENCE**

**XDInnovation** *Application Engineer*

**Dec 2018 - Present**

- Enable customers to digitize their manufacturing planning by leveraging the 3DEXPERIENCE (DELMIA Apps).
- Virtually Simulated customers' Assembly Process and Validated Install Processes.
- Authored instructional videos for customer training and webinar material. Ex: Social Collaboration on the 3DExperience, How to install 3DExperience and apps
- Supported customers onsite and remotely to ensure their success in utilizing the 3DExperience: Trouble shoot issues with software, record and report problems to Dassault Systems through service request.
- Liaison between customers' needs and Dassault Systemes as Los Angeles presales representative on behalf of XDInnovation
- Provided contracted engineering services with best practices and continuous improvement as focus of service
- Obtained certification from Daussault Systemes Certification Program to ensure proper representation of latest software releases.

Certificates Obtained:

- |                                            |                                      |
|--------------------------------------------|--------------------------------------|
| 1. DELMIA Mid-Market Articulate            | 5. Solution Architecture Foundations |
| 2. DELMIA Machining Mid-Market- Articulate | 6. Solution Architecture Methodology |
| 3. ENOVIA Mid-Market Articulate            | 7. TnM Bid to Win Articulate         |
| 4. ENOVIA Brand Essentials                 |                                      |

**Faraday Future** *Manufacturing Process Engineer for Vehicle Assembly*

**Mar 2016 – Nov 2018**

- Developed vehicle subassembly processes: Doors, Fascias, Tires and Wheels, Subframes, Underhood Module, Chassis-to-Body Marriage Prep, & Front-End Module
- Supported design and development of the 1<sup>st</sup> model "FF-91" vehicle by working cross-functionally with all engineering, vehicle packaging, supplier quality, supply chain, and program management teams. Responsible for reviewing and approving all design changes proposed by design teams that impacted the vehicle subassembly processes
- Supported the design of various factory layouts for primary vehicle production while protecting for later model integration
- Responsible for design for manufacturing (DFM) for all sub-assemblies on the 2<sup>nd</sup> model "FF-81"
- Improved assembly processes by testing and validating plans during Beta and Gamma phases of the vehicle build
- Trained the plant team members on the process and equipment before transferring completed station to the plant operations team
- Integral member of core team to develop and define key metrics used to show success and progress of validated assembly processes before handing off ready-to-use process to plant operations team
- Reviewed and approved all vehicle parts and manufacturing equipment within all sub-assembly processes

**Faraday Future** *Manufacturing Process Intern for Vehicle Assembly*

**Jun 2015 - Sep 2015**

- Worked with manufacturing engineers to develop layouts and metrics for manufacturing [systems](#)
- Helped develop lean practices and methods for manufacturing, including metrics reporting, value-added operations, minimizing waste, short-run production systems, focus on the operator ergonomics, and safety
- Developed product feature and price comparisons for R&D support, and prototype equipment
- Contacted and initiated communication with suppliers, wrote Request for Quotes (RFQs), and completed purchase orders for projects
- Utilized Dassault Systemes DELMIA 3D Experience 2015 to review CAD to plan for vehicle assembly

**Engineering Resource Development** *Mechanical Engineer*

**Sep 2015 - Mar 2016**

- Developed electric-diesel hybrid as proof of concept vehicle
- Led mechanical engineer designing mounts for the battery pack, generator and jet engine  
<https://www.youtube.com/watch?v=tCxW9I-Ifdw>

**UCI Irvine FSAE Electric Race Car** *Electric Powertrain Team Leader*

**Sep 2015 - Mar 2016**

- Led and managed team of 5 members to design and manufacture/assemble the electric powertrain for FSAE electric vehicle

# Andres Ruiz

Los Angeles, CA 90002 · (909) 659-4977 · engineerandres09@gmail.com

## **UC Irvine Design Build and Fly** *Manufacturing Lightweight Composite Aircraft Components*

**Oct 2014 - Apr 2015**

- Worked with motor mount team in the design and manufacturing of both female and male molds
- 3-D printed female molds, which is the most current method of manufacturing motor mounts
- Fabricated male molds out of dense foam utilizing a two-axis CNC hotwire machine
- Introduced new methods to stiffen the front fairing by using a two-step wet layup process
- Collaborated to write and edit aircraft design report and placed 11th out of 80 schools worldwide
- *Won 1st place nationally, 2nd internationally at AIAA Design Build and Fly Competition, Tucson, Arizona, April 2015*

## **UC Irvine FSAE Race Car** *Suspension Team Leader*

**Jan 2014 - Jun 2015**

- Designed using Solidworks and manufactured the vehicle's suspension
- Analyzed suspension geometry, expected static and dynamic loads, and selected optimum design for performance
- Analyzed components using SolidWorks FEA, converted to full-scale drawing and manufactured components
- Selected materials and respective dimensions for suspension components
- Responsible for overall project progress, including setting project plan and milestones, delegating responsibilities to team members, and holding regular reviews with team to ensure tracking to all deliverables
- *"Savage" competed in June for the 2015 Formula SAE competition in Lincoln, Nebraska*

## **ADDITIONAL EXPERIENCE**

### **Quality Auto Specialist** *Automotive Mechanic*

**Jun 2014 - Oct 2014**

- Conducted diagnostics and automotive repairs on domestic and import vehicles in accordance with ASE standards
- Overhauled GMC engines, serviced transmissions, performed routine inspection and service to customers' vehicles

### **Zamora Tires** *Automotive Lead Mechanic*

**Oct 2013 - Dec 2013**

- Supervised co-workers, inspected and diagnosed vehicles, responsible for all automotive repairs
- Managed inventory, cash register, financial spreadsheets, schedules

### **Atlas Copco Construction** *Assembler and Mechanic*

**Aug 2013 - Oct 2013**

- Assembled 300-500 psi wagon mounted air compressors
- Maintained records of the process and tested final products

## **TECHNICAL SKILLS**

- Fluent in English and Spanish (Verbal/Written)
- Catia V5/ V6V6- Mechanical Engineer for part design, assemblies, drawings
- Experience with Fixture design in Siemens NX, and parts design in AutoCAD Inventor, factory layout in Autodesk Factory Design Suite 2016
- Computer Aided Design (SolidWork., Autodesk)
- Import and Domestic Automotive Repairs and Diagnostics
- Following Automotive Service Excellence ASE standards (5 yrs.)
- Use of Geometric Dimensioning and Tolerancing (GD&T)
- MATLAB®
- Basic Circuits Design and Analysis
- Skilled with power/pneumatic/soldering/hand tools, and welding
- Microsoft (Word, Excel, PowerPoint, Visio, Outlook)
- Basic HTML, CSS, Javascript, Python program and webpage design.