



José Alberto Vera Vigil

Mechanical / CAD Engineer

Experienced Mechanical Engineer with a strong background in product development and design in the automotive industry. With over 7 years of international experience, I have sharpened my technical skills and have a passion for staying current with industry trends and advancements. Proficient in CAD design, I am eager to apply my expertise to challenging engineering projects and continue to drive innovation in the field.

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SKILLS & COMPETENCES

CATIA V5

3D Experience

Enovia

SolidWorks

Problem Solving

Product Development

Team-player

Leadership

Creativity

GD&T (ISO1101)

Communication

Continuous Learning

WORK EXPERIENCE

Mechanical / CAD Engineer Lightyear

06/2018 - Present

Helmond, Netherlands

Lightyear's goal is to develop the world's first long-range production-ready solar electric vehicle.

Lightyear 0

- ◇ Cross-functional collaboration with suppliers and internal teams such as DMU, aerodynamics, thermal systems, electrical systems, Body-In-White and manufacturing to develop, design, produce, and integrate the Front Hex Unit system. Successfully minimizing 15% of the initial weight target and maximizing efficiency.
- ◇ Led product design and development efforts using a Product Realization Process framework, taking components from the concept to the release phase. Elaborating 3D models, technical drawings and documentation throughout the entire process.
- ◇ Demonstrated technical proficiency through hands-on physical integration and testing of key vehicle components and systems, including the front hex unit, coolant and refrigerant system, HVAC, and closures.
- ◇ Co-lead in the development and design of the Door-In-White system, transforming 2D sections into detailed 3D models. Demonstrated expertise in structural parts, sealing concepts, and kinematics design.
- ◇ Served as a member of the CAD Leads team of the mechanical cluster, contributing as a stakeholder in defining best practices for design of components and systems. Consistently participated in design reviews to ensure high-quality results.
- ◇ Constantly adapted to the changes and growth of the company, from a start-up into a scale-up, and proactively helped in the company's development and evolution, shaping its culture and driving success.

CAD Design Engineer EDAG México S.A. de C.V.

01/2018 - 05/2018

Aguascalientes, Mexico

COMPAS (Cooperation Manufacturing Plant Aguascalientes).

Mercedes Benz / Infiniti

- ◇ Development of fastening and positioning devices for the integration of the new Mercedes-Benz A-Class production line into the current Infiniti QX50 production line.
- ◇ Optimization and improvement of existing tooling design. As well as digitalizing already existing tooling benches.
- ◇ Spatial and dynamic analysis of internal components.

ACHIEVEMENTS & CERTIFICATES

Lightyear VP (Validation Prototype) (10/2020 - 12/2020)

Successfully developed and build the first validation prototype of the Lightyear 0 concept.

Lightyear P-Zero Prototype (05/2019 - 06/2019)

Successfully developed and build the first driving prototype of the Lightyear 0 concept.

Dassault Systems "CATIA Surface Design" (06/2015 - 07/2015)

Applied Industrial Robotics (09/2013 - 05/2014)

Certified by Volkswagen Mexico.

LANGUAGES

Spanish
Native or Bilingual Proficiency

English
Full Professional Proficiency

German
Limited Working Proficiency

INTERESTS

CrossFit

Reading

Hiking

Philosophy

History

Arts & Culture

Music

Travelling

Sports

Science & Technology

WORK EXPERIENCE

CAD Design Engineer EDAG México S.A. de C.V.

03/2015 - 01/2018

Puebla, Mexico

Volkswagen Jetta A7 and Volkswagen Passat GP2.

- ◇ Work in collaboration with Body-In-White, Interiors, Mounting Parts and Electrics teams in order to guarantee the functionality of all the parts and components.
- ◇ Development and analysis in CATIA V5 of all the sheet metal parts for the Door-In-White (front door) system. Elaborating 3D models and technical drawings of components and main assemblies successfully meeting Volkswagen's and suppliers' standards.
- ◇ Workstay for three months in EDAG Wolfsburg (Germany) on the development of the Jetta A7 (Dec 2015 - Feb 2016). Becoming a key member for the communication and collaboration in between Mexico and Germany during and after the workstay.
- ◇ Checking the position, distribution and technology for welding points and chords, glue areas, hinges and nuts, assuring the functionality, correct assembly and repeatability of the processes.
- ◇ Dealing with suppliers to check feasibility issues and production requirements.

EDUCATION

Bachelor of Engineering in Automotive Design Universidad Popular Autónoma del Estado de Puebla

08/2010 - 03/2015

Puebla, Mexico

Courses

- ◇ Semester abroad at Carinthia University of Applied Sciences (Villach, Austria).
- ◇ Summer research program at Beijing Institute of Technology (Beijing, China).