Ing. Jonathan Montiel Ventura

Product Development | Design Optimization | Manufacturing & Supplier Coordination | Technical Training (Academia & Industry)

Trollhättan, Provincia de Västra Götaland, Suecia

- **Design Engineer.** Skill. Trollhättan, Provincia de Västra Götaland, Suecia · Presencial. Working as a Consultant, currently assigned to GKN Aerospace. Supporting the development of jet engines, contributing to engineering activities and collaborating with cross-functional teams.
- **President.** CVITEK · Profesional independiente. Trollhättan, Västra Götaland County, Sweden En remoto (Volunteer Role) CVITEK is an initiative that connects industry, universities, and engineering professionals to promote technological development and innovation. The organization focuses on creating collaborative environments where companies, researchers, and engineers can work together to develop practical solutions and strengthen regional technological ecosystems.
- **Sr automotive design engineer.** Blue Eye Engineering AB. Trollhättan, Västra Götaland County, Sweden · Presencial.
  * Created clean-sheet door system architecture for an innovative EV platform, enabling prototype development under unconventional structural constraints (no B-pillar).
  * Solved high-complexity packaging and structural conflicts by developing new mechanical concepts (hinge system) aligned with patented manufacturing methods.
  * Reduced prototype costs through design-for-manufacturing iterations, introducing non-traditional processes (laser tube cutting, advanced forming, 3D printing).
  * Bridged design and simulation by implementing FEA-driven improvements, increasing concept maturity before physical validation.
- **Senior Engineer.** Zeekr Technology Europe. Gotemburgo, Provincia de Västra Götaland, Suecia · Híbrido
  * Closed 20+ high-priority technical issues in door sealing systems, directly enabling pre-series approval and downstream industrialization.
  * Eliminated water leakage risks and improved assembly robustness, ensuring compliance with water ingress testing standards.
  * Acted as technical decision-maker between OEM and suppliers, aligning design feasibility with manufacturing constraints.
  * Coordinated multi-supplier ecosystem to deliver validated components under tight pre-series timelines.
- **Lead Designer.** FEV México · Profesional independiente. Puebla de Zaragoza y alrededores, México · Híbrido.
  *Acted as key technical interface across multiple OEM programs, managing

simultaneous component developments in high-pressure environments.
*Took end-to-end ownership of components, consistently delivering from concept to release while coordinating suppliers and internal stakeholders.
*Functioned as de facto technical lead, combining engineering execution with team coordination and decision-making.
*Elevated team performance by developing and delivering CAD training programs, both internally and for OEM clients, improving design efficiency and standardization.

- *Demonstrated versatility across passenger vehicles and heavy-duty platforms, adapting quickly to different engineering ecosystems.
- **Instructor & Trainer.** Universidad Iberoamericana Puebla · Profesional independiente Puebla de Zaragoza y alrededores, México.
  Coordinator and instructor of the CAD-CAM-CAE diploma program for engineering professionals and industry partners. Lecturer for the bachelor course Computer-Aided Design and Analysis for Designers and Engineers focused on CAD modeling and digital engineering workflows.
- Tooling Designer. PWO México. Puebla de Zaragoza y alrededores, México.
  *Supported critical production ramp-up by maintaining and optimizing 50+ stamping tools, enabling transition toward serial manufacturing.
  *Reduced tooling failures through hands-on problem solving and geometry optimization, improving process stability.
  *Bridged shopfloor and engineering by translating tooling issues into precise CAD and CNC-ready solutions.
  *Built strong expertise in tolerancing and manufacturability, accelerating learning curve and outperforming more experienced peers.
- Manufacturing / Industrialization Support Engineer. Level One Robotics and Controls, Inc. San Luis Potosí y alrededores, México.
  *Supported the implementation of manufacturing lines for seat rail components used in Tesla Model 3 and Tesla Model X at Faurecia San Luis Potosí.
  *Defined and aligned manufacturing requirements, translating plant needs into actionable technical and commercial specifications.
  *Prepared vendor RFQs and technical documentation, supporting sourcing decisions based on cost, feasibility, and production requirements.
  *Developed tooling concepts and refurbishment strategies, enabling reactivation of existing machinery and integration of new equipment.
  *Played a key role in ramping up a new production line, balancing cost constraints, plant capabilities, and project timelines.
  *Acted as a bridge between engineering, suppliers, and plant operations to ensure feasible and cost-effective manufacturing solutions.
- Design Consultant. LEO-RDA.
  *Led end-to-end development of mounting components for OEM programs, from prototype phase in Germany to Design B release, ensuring continuity across regions.

*Acted as project coordinator for EV and tactical vehicle programs, aligning CAD development with real prototype build requirements.
*Delivered results in international engineering environments, working directly with OEM teams in Germany and leading execution in Mexico.
*Combined technical execution and project coordination, effectively operating as a technical lead across distributed teams.

- **Implementation Engineer**, 3DEXPERIENCE SOLUTIONS. AdN Consulting. México.
  * Specialized in CATIA V5 implementation and client enablement, supporting industrial adoption of advanced CAD workflows in manufacturing environments.
  * Delivered end-to-end support from process analysis → solution definition → CAD implementation → user adoption.
  * Strengthened client engineering capability through structured deployment of CATIA V5, improving design standardization and workflow efficiency.
  * Built advanced expertise in CATIA through direct project execution, achieving full certification while delivering client implementations.
- **Teaching hour.** BUAP · Profesional independiente. Teaching Technical Drawing subjects for Food Engineers, Materials Engineers, Chemical Engineers and Environmental Engineers.
- **General Coordinator.** CIYDI Ingeniería Aplicada. México.
  * Responsible for project management, from planning to execution.
  * CI&DI Applied Engineering offers: CAD analysis, 3D environment generation, mechanical part design, plastics training and consulting, CNC machining, CAD modeling.
- **External Technical Instructor.** Facultad de Ingeniería, BUAP. Puebla de Zaragoza y alrededores, México.
  * Mechanical Component Modeling (Basic)
  * Mechanical Component Modeling (Intermediate)
  * Diploma in Computer-Aided Design and Manufacturing of Mechanical and Industrial Components

Proyectos desarrollados por el instructor internacional

No.	Proyecto / área	Resumen del proyecto	Países involucrados
1	New EV Brand — Door System	Desarrollo conceptual de sistemas de puertas para vehículos eléctricos, integrando diseño, cinemática, simulación y prototipado.	Estados Unidos Italia Suecia Inglaterra
2	VW Tayron — Center Console	Gestión del desarrollo de componentes plásticos, coordinando fabricante, ingeniería y procesos de fabricación entre equipos internacionales.	México Alemania China
3	VW Atlas — Center Console	Liderazgo de equipo de ingeniería para el desarrollo y adaptación de componentes plásticos destinados a producción automotriz.	México Alemania Estados Unidos
4	Scania — Truck Cabin Door	Desarrollo de modelos paramétricos 3D para componentes exteriores, interiores y refuerzos de cabina.	México Alemania Suecia
5	Evergrande — Bumper / F-Trunk	Desarrollo de modelos conceptuales y componentes conforme a los estándares de ingeniería del fabricante.	China Alemania México
6	Zeekr — Robotaxi Door Sealing	Resolución de problemas de sellado mediante validación de diseño, análisis de pruebas y coordinación de cambios de ingeniería.	Suecia China
7	VW Taos — Center Console	Desarrollo y validación de componentes plásticos, colaborando con equipos de ingeniería y cliente.	México Alemania
8	VW Jetta A7 — Componentes de montaje y plásticos	Desarrollo de componentes automotrices y definición de puntos de montaje, con experiencia internacional en ingeniería.	México Alemania
9	VW — Hood Systems	Desarrollo y modificación de componentes de cofre, integrando criterios de diseño, fabricación y validación.	México Alemania
10	VW — Tailgate Systems	Desarrollo y actualización de componentes de portón trasero, incluyendo piezas metálicas exteriores e interiores.	México Alemania

11	VW Atlas — Fender	Diseño CAD de componentes de salpicadera, con atención a los requisitos de ingeniería y validación.	México Alemania
12	Canoo — Door Hinge	Desarrollo de bisagras automotrices con enfoque en diseño para fabricación y ensambles, respaldado por análisis de ingeniería.	México Estados Unidos
13	Lucid — Interior Feasibility	Evaluación de la fabricabilidad de componentes interiores para apoyar decisiones de diseño.	México Estados Unidos
14	Faurecia–Tesla — Seat Rails Production Line	Diseño de máquinas y adaptación de equipos existentes para apoyar una nueva línea de producción.	Canadá México
15	VW Taos — Plastic Body Floor	Desarrollo de componentes plásticos inferiores, considerando fabricación, ensamble y validación de diseño.	México
16	VW Atlas — Wheel Arch Liner	Desarrollo de revestimientos de paso de rueda mediante procesos de inyección y termoformado.	México
17	VW Atlas / Taos — Wheel Arch Moulding	Diseño de molduras de paso de rueda, considerando ensamble, sellado y requerimientos de herramental.	México
18	PWO — Tooling Engineering	Mantenimiento y mejora de herramentales industriales, incluyendo escaneo y reconstrucción de componentes.	México
19	Modular EV Prototype	Liderazgo de ingeniería de diseño para el desarrollo de un prototipo modular de vehículo eléctrico.	México
20	L3 — Armored Vehicle	Diseño 3D de componentes para vehículos blindados, considerando procesos de corte láser y soldadura.	México