

Angel Ramirez Garcia

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EDUCATION

Stanford University

Bachelor of Science in Mechanical Engineering

Stanford, CA

Graduated Mar. 2024

EXPERIENCE

Tandem Diabetes Care

Product Development Engineer — Full Time

Irvine, CA

May 2025 – Present

- Supported **successful FDA 510(k) clearance** by **conducting design verification testing, building custom inserters, and designing SolidWorks fixtures** to validate performance per **ISO 13485/FDA QSR**.
- Driving early-stage development** of a confidential medical device toward first-in-human clinical trials through fixture design, protocol development, drawing updates/transfers, change order management, and hands-on design engineering.
- Developed and managed** engineering **work orders**, work instructions, and technical **change documentation** to support **safe and compliant execution** of projects under ISO 13485/FDA QSR requirements.
- Analyzed** test data to drive root-cause investigations, **implemented** corrective actions, and **designed/optimized** fixtures and components using **GD&T, DFMEAs**, and competitive benchmarking.
- Built and evaluated rapid prototypes** (3D printing, CNC, laser cutting) to accelerate design iterations and meet design-control deliverables.
- Collaborated** with cross-functional teams to **qualify** suppliers, draft assembly guides, and prepare production transfers.

Eaton Cooper Interconnect

Design Engineer — Full Time

City of Industry, CA

Aug 2024 – Mar 2025

- Supported senior engineers in **designing and revising electrical connectors, cable assemblies, and mechanical subsystems**; updated legacy designs and created detailed drawings in **SolidWorks** using **GD&T**.
- Created and processed** engineering **change orders (ECOs)** and managed technical **work packages** through **ENOVIA/3DEXperience**, ensuring accuracy in design modifications and timely execution of engineering **work orders**.
- Developed** Compliance Matrices and Qualification Test Plans (QTPs) outlining aerospace testing paths.
- Oversaw environmental testing** (vibration, thermal cycling, salt spray) ensuring compliance with **AS9100** standards.
- Served as primary liaison** with customers—coordinating meetings, technical discussions, and presenting engineering updates.
- Scoped and executed** engineering **work orders** by leading **MRB activities**, performing **root-cause investigations**, and coordinating **corrective actions** with internal teams and external vendors.

NASA Jet Propulsion Laboratory (OCO-3)

Electrical Engineer — Intern

La Cañada Flintridge, CA

Jun 2017 – Aug 2027

- Supported **integration and testing** of the OCO-3 payload, focusing on safe-to-mate procedures and mission compliance.
- Conducted detailed testing on 100+ **HVAC cables** under diverse conditions to ensure reliability and efficiency.
- Assisted in power-on and functional testing, **preparing equipment for multiple stages of spacecraft payload testing**.
- Authored and standardized** IBATS documentation, improving protocols across 300+ assessments.

SKILLS

Engineering: Fusion360, SolidWorks, 3DEXperience, ENOVIA, GD&T, DFA/DFM, FEA

Programming: Swift, C++, Python, Matlab, Java, HTML/CSS

Prototyping: 3D Printing, Laser Cutting, Wood/Metal/Acrylic, Milling, Lathing, Textiles

Productivity: Excel, Word, PowerPoint, Teams, Outlook, Figma