Lucia Ortega

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My Key Qualifications

- Mechanical Engineer I at a **medical device contract manufacturer** since May 2025, doing sustaining and NPI work on the shop floor.
- **SolidWorks** for part modeling, assemblies, and 2D drawing creation under senior engineer guidance.
- **34 ECO/ECN updates** routed through PLM in 6 months, across machined and molded components, with no returned documentation errors.
- Prototype assembly and bench testing on a handheld electromechanical subassembly, with **11 documented test runs** in Excel reports.
- Helped cut repeat nonconformance reports **from 5 to 2** using tolerance review, fit checks, and a 5 Whys root cause analysis.
- **GD&T** and tolerance analysis applied to fit issues and a dispensing-device capstone validated over 150 test cycles at 96% repeatability.
- DFM/DFA coursework and project work in sheet metal and 3D printing, including an enclosure redesign that cut part count from 14 to 10.

Experience

Mechanical Engineer I — **Cretex Medical**, a medical device contract manufacturer

May 2025 – Present · 1 yr 6 mos

- Updated released drawings and BOM records for sustaining engineering changes across machined and molded components, completing 34 ECO and ECN updates in 6 months with no returned documentation errors by routing releases through the PLM workflow.
- Supported prototype assembly and bench testing for a handheld electromechanical subassembly, documenting 11 test runs and identifying 3 repeat fit issues before the pilot build.
- Helped troubleshoot a recurring assembly nonconformance at a production fixture interface, cutting repeat nonconformance reports from 5 in one month to 2 the next through fit checks and a 5 Whys review that supported a drawing clarification.
- Create and revise part models, assemblies, and 2D drawings in SolidWorks under senior engineer guidance.

Education

- **Iowa State University** — Bachelor of Science in Mechanical Engineering · 2021 – 2025 ·
  Relevant coursework: Machine Design, Manufacturing Processes, Finite Element Analysis, Mechanical Measurements, Materials Engineering

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Projects

- **Automated Pill Dispenser Capstone**
  Senior capstone designing a benchtop medication dispensing device for a campus-affiliated healthcare client, including housing, drive components, and tolerance checks for repeated assembly. Improved dispense repeatability to 96% across 150 test cycles.
  Tech: SolidWorks, FEA, GD&T, Excel
- **Sheet Metal Enclosure Redesign**
  Redesigned a small equipment enclosure for a student engineering team to simplify fabrication and assembly using standard sheet metal bends and fasteners. Reduced part count from 14 to 10.
  Tech: SolidWorks, DFM/DFA, Sheet metal, 3D printing

Skills

- **CAD & Design:** SolidWorks, GD&T, Tolerance Analysis, DFM/DFA
- **Documentation & PLM:** ECO/ECN, BOM Maintenance
- **Analysis & Testing:** FEA, Excel