Diego Ramírez-Holt

Mechanical Engineer II | Mechanical Engineer

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PROFESSIONAL SUMMARY

Mechanical design engineer with six years taking electromechanical products from concept to production. Owns enclosures, thermal management and plastic parts, working closely with injection molders and contract manufacturers. Strong in Creo, tolerance analysis and DFMEA, with a habit of designing out assembly problems before tooling is cut.

PROFESSIONAL EXPERIENCE

Mechanical Engineer II *Apr 2023 — Present*

Brazos Edge Devices · Austin, TX

- Led mechanical design of an outdoor network enclosure from concept to mass production, meeting IP67 sealing and thermal targets on the first validation build.
- Reduced unit cost by $4.80 by consolidating a five-piece housing into two molded parts, working with the molder on gate location and draft.
- Ran thermal simulations in Icepak and correlated them with chamber tests, settling a heat sink design that removed the need for a fan.
- Owned the DFMEA and design verification plan for the program, tracking 60 test cases through to sign-off with quality and electrical leads.

Mechanical Engineer *Jun 2020 — Mar 2023*

Oakmont Instruments · Round Rock, TX

- Designed sheet metal chassis and cable management for benchtop lab analyzers, releasing drawings and engineering change orders in Windchill.
- Performed tolerance stack-ups on a lid hinge that was jamming in the field, then revised datums and tolerances to clear the interference.
- Supported the contract manufacturer through two product launches, resolving assembly issues on the line and updating work instructions with photos.

EDUCATION

BS, Mechanical Engineering — Pecan Valley State University *2020*

SKILLS

Technical: Creo Parametric, SolidWorks, Windchill PLM, GD&T, Tolerance stack-up, Injection molded plastics, Thermal analysis, ANSYS Icepak, DFMEA, DFM/DFA, Design verification testing, Supplier management

Certifications: Engineer Intern (EI), Texas · Certified SolidWorks Professional (CSWP)