Diego Ramírez-Holt

Mechanical Engineer II | Mechanical Engineer

CONTACT

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(512) 555-0174

Austin, TX

SKILLS

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

EDUCATION

BS, Mechanical Engineering
Pecan Valley State University
2020

CERTIFICATIONS

· Engineer Intern (EI), Texas

· Certified SolidWorks Professional (CSWP)

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.