Omar Haddad

Product Engineer

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SUMMARY

Product engineer with 3.5 years of hardware product work on camping stoves, lanterns and kitchen goods, from early prototypes to factory launch. Pairs SolidWorks design and DFM reviews with data analysis in Python, SQL and Excel to find failure trends, and keeps launches on schedule through clear written and verbal updates to suppliers and marketing.

EXPERIENCE

Product Engineer

01/2025 - Present

Cascade Trail Gear

Portland, OR

Engineer for backpacking stoves and lanterns sold through 900 retail stores and online, working with 3 overseas factories.

- Own engineering for **4** product lines with $18M in yearly sales, from concept sketches to factory sign-off.
- Design parts for injection molding and die casting in SolidWorks, running DFM reviews with suppliers before tooling release.
- Query warranty returns with SQL and Python, tracing a lantern switch failure and cutting return rates from 4.1% to 1.3%.
- Plan drop, thermal and burn-time tests for 2 launches a year, writing the test plans and reports for safety certification.

Associate Product Engineer

04/2023 - 12/2024

Willamette Home Products

Tualatin, OR

Six-person engineering team developing kitchen gadgets and storage products for big-box retail chains.

- Built 25 parts through rapid prototyping with 3D printing and CNC, testing fit and function with industrial designers.
- Tracked first-article inspections for **60** new parts in Excel, closing dimensional issues with suppliers in 10 days on average.
- Created a Python script that compares supplier inspection reports with drawings, saving 5 hours of review a week.
- Updated bills of materials and engineering change orders for 12 SKUs during a supplier move to a new factory.

Manufacturing Engineering Intern

06/2022 - 09/2022

Columbia Gorge Cycle Works

Hood River, OR

Summer internship at a bicycle hub and component maker with 3 CNC machining cells.

- Designed 6 assembly fixtures in SolidWorks that cut hub assembly time by **15%**.
- Logged scrap data for 3 CNC cells in Excel and traced the top 2 causes of rejected parts.
- Wrote 10 photo work instructions for new operators on the hub assembly line.

SKILLS

SolidWorks • DFM

Injection Molding

Rapid Prototyping • Python

SQL • Data Analysis • Excel

Bills of Materials

Problem-Solving Skills

EDUCATION

Bachelor of Science

12/2022

Oregon State University

Corvallis, OR

Mechanical Engineering

CERTIFICATES

Certified Six Sigma Green Belt (CSSGB)

ASQ

2025