**Grady Goodenough**

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Skills

Siemen’s NX

Solidworks

Finite Element Analysis

3D Printing

Education

Portland state university

BS Mechanical Engineering, Present

Former President of the OR-B Chapter of Tau Beta Pi Engineering Honor Society

boise State UNIVERSITY

BA English Literature, December 2010

* Writing Center Volunteer

Professional Experience

**Danner boots** Portland, OR

## *MECOP Intern, Apr 2018 – Sept 2017*

Revised marking template process to utilize 3D printed parts. Increased accuracy of templates, reduced labor time spent assembling, reduced material costs and created a digital database for replacement parts.

Independently tested plastics, glues, and textiles for material properties following SATRA testing methodology. Proposed new counter material replacement with a projected savings of *$10,000*/year.

Designed and implemented a nylon 3D printed knife sharpening fixture. Ensured accuracy of grind angles and knife performance with a projected savings of *$2500*.

Designed, built, and tested a new press plate which increased adhesion in heel area by *5x*. Projected cost savings of *$2800*/year

Created emboss plate centering fixture and new emboss standards, as well as re-centering misaligned plates for a cost savings of *$3000*.

Created urethane press pads for use with Pasanqui bladder press machines to increase toe and heel outsole adhesion. 3D printed parts, molded in silicone and then cast final versions in urethane.

Researched options for a spectrophotometer, worked with 3 venders and set up 2 demonstrations. Presented cost justification ROI and set up a trial rental for Quality to test. Projected annual savings of *$3,000*.

Member of the Danner Safety Committee. Designed, built, and implemented trays to catch vented eyelet pieces to reduce slipping hazards. Designed, 3D printed, soldered, and programmed an Arduino buzzer for use on pallet jacks to alert others of large boxes being moved.

Designed and 3D printed Go/No-Go stitching gauge to ensure stitching tolerances for both single and double needle stitching.

Designed sheet metal duct work for a new sanding machine which improved suction and increased range of motion for operators for sanding all boot sizes.

**daimler trucks north america** Portland, OR

## *MECOP Intern, Apr 2017 – Sept 2017*

Designed a new inside of rail mounted air tank bracket for vocational truck use. Estimated production volume of *70,000* brackets per year.

Analyzed bracket designs using FEA techniques to ensure structural and modal stability for vocational applications.

Performed quality checks for Custom Work Orders; caught *98* errors which would have become shop calls during manufacturing. Saved over *50* hours of labor from full-time engineers.

Created a centralized location for Mid-Chassis Packaging digital models to save communication time and reduce confusion on current concepts impacting design space.

Performed root-cause analysis for a recurring drain-cable shopcall. Proposed a new datum position and install diagram which resolved this issue.

1201 Computer repair Portland, OR

Computer Repair Technician, Aug 2015 – Apr 2017

Repaired over *500* computers, both hardware and software issues.

Performed hardware repairs including cooling system repair, LCD replacements, liquid spill cleanouts, and soldering repairs.

Recovered data from damaged hard drives, including one involved in a house fire.

Repaired software issues on Mac OSX, Windows, and Linux environments including virus removal, repairing broken operating systems, and corrupted registries.

Designed and built *6* custom PCs purpose built for gaming, CAD, productivity, and video rendering, respectively.

**YURZ INC** Beaverton, OR

## *SEP Manager, July 2011 – Aug 2015*

* Automated keyword research with an Excel macro, reducing database populating time by 25%.
* Created custom filters in Microsoft CRM to create internal and external cost reports for client advertisements.
* Created template content for customer websites and advertisement text.
* Led a team of 6 people to research, create, and maintain customer advertising on Bing and Google platforms.