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(LinkedIn)
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github.com/Brad-Tudor-Eng
(Other)
github.com/Brad-Tudor-Eng/Resume
(Other)

Top Skills

React.js
JavaScript
Node.js

Brad Tudor

Currently seeking Full Stack, Frontend and Backend developer opportunities.

Long Beach, California

Summary

Portfolio: <https://bradtutor.com>

Resume: <https://github.com/Brad-Tudor-Eng/Resume>

Result-driven Full Stack developer with experience in MERN (Mongo, Express, React, and Node) stack. Successfully completed full stack development projects; writing code for both the front end and back end. Knowledgeable in graphic design, responsive web layout and IOT development.

10 years of experience in Mechanical Engineering. Specializing in new product development, prototyping, cost reduction, manufacturing support, fixture design and construction. Knowledgeable in resolving technical difficulties through failure analysis and technical support. Proficient in project management with an excellent track record of on time delivery.

Experience

Stewart Filmscreen
Mechanical Engineer
April 2017 - Present
Torrance, California

Responsibilities: Process improvement and automation through API and macro programming. Product renderings for website. Developed costing for products. Research and Development (R&D). New Product Development (Consumer Goods). Redesign existing products reducing manufacturing time and cost.

Achievements:

Wrote code to translate over 5000 CAD files from 2013 Inventor to Solidworks 2017.

Automated drawing process and BOM generation using VBA.

Developed system for generating accurate product cost.

Produced photo-realistic product renderings for companies website (currently under development).

Designed and developed award winning product line.

PAI Industries

Product Development Engineer

September 2012 - Present

Responsibilities: New product design and development. Foreign and domestic supplier acquisition, and management. Fixture design and development. Used 3D modeling, FEA and CFD simulation to validate designs. Prototype construction and 3d printing. Engineering data management. Physical product testing. PPAP / FEMA documentation and testing. Research and acquire new capital resources to expand manufacturing capabilities. Developed creative solutions for allowing our sales staff to convey technical information simply and cost effectively. Advised senior management on corrective actions for non-conforming products, process, and facility improvements. Audit internal ISO processes. Interface with clients to educate them on engineering procedures through technical presentations. Process automation through API Programming

Achievements:

Wrote software to reverse engineer camshafts, and translate data into CAD system.

Created a new system to organize the engineering data, reduce lost / duplicate files, and confusion.

Wrote several Macros to reduce redundant procedures in CAD file creation.

Decreased engineering development time by up to 75% through implementation of 3d Laser scanning.

Reduced product assembly time by up to 83% through new fixture development.

Developed, sourced and launched extremely successful high performance product line.

Cut production cost of HP piston pins by 50% through the purchasing and implementation of new equipment. (4.18 month ROI)

Supreme Corporation

Product Engineer

December 2010 - September 2012 (1 year 10 months)

Set base standards for 70% of the Supreme Corporations' truck divisions' product line. Designed and implemented improvements for cost reduction

ease of manufacturing and structural integrity. Provided technical support for sales and Manufacturing at 5 locations nationwide.

- Strengthened key support structure by 85% while using 35% less part.
- Diminished total inventory through development of common parts across product lines by 45%
- Employed improvements in product design resulting in a 20% reduction in fasteners and automation of assembly line
- Decreased warranty and manufacturing issues through root cause analysis of complaints.
- Boosted sales through technical support and production of custom designed units on a tight schedule.
- Enhanced engineering capabilities by supervising and training new employees in drafting procedures and

Marson International/Quality Fuel Solutions/Pitstop Products

Head of Engineering/Engineering Manager

February 2009 - December 2010 (1 year 11 months)

Supported manufacturing through the design, sourcing, assembly and inspection welding fixtures. Developed coordinates for CNC tubing process. Worked with Senior Management to develop new products.

- Improved weld fixture inspection procedures through enhanced use of FARO technology.
- Cut weld fixture production time by personally assembling and inspecting fixtures.
- Successfully designed and launched new deck railing system for recreational vehicles.

Western Michigan University (CAVID)

Research Assistant

December 2007 - August 2008 (9 months)

Perform finite element analysis on large truck assemblies

Work on a team to develop CAD models for simulation

Perform white light scanning to reverse engineer components for 3D models

Summit Polymers

Engineering Intern

December 2006 - July 2008 (1 year 8 months)

Worked with project engineers to ensure successful on time development of plastic injection molded products.

- Used root cause analysis to effectively solve warranty issues for major automotive companies.
- Reduced design cost by hand building functional models to expedite testing of design changes.
- Successfully met tight prototype delivery deadlines by training and managing teams of up to 8 people.
- Cut production cost through implementation of new corporate design standards.

Reflex Industries, INC.

CAD\CAM Programmer

April 2006 - December 2006 (9 months)

Summer Job before heading back to school

Programmed parts for laser cutting routines

Updated the bill of materials list for over 100 companies

Organized and assigned parts for production runs

Education

Western Michigan University

Bachelors of Science, Engineering · (2008)

Southwestern Michigan College

Associate of Applied Science, Engineering · (2006)