Bradley L. Tudo

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QUALIFICATIONS SUMMARY:

Full-Stack Developer:

Successfully built out several platforms as a full-stack developer. Participated in every stage of development from product planning to data modeling, implementation, testing and review. Designed and built a recommendation system using Neo4j (graph database) and a database synchronization layer. Routinely handled full ownership of feature implementation. Built out tools for team metrics tracking. Mentored other engineers.

Mechanical Engineer:

Promoted to Director of Engineering for Stewart Filmscreen. 10 years of industry experience focusing on cradle grave new product development, continuous product improvement, process automation, manufacturing \ support and warranty analysis. Experienced in new employee training \ mentorship. Extremely proficient in 3d modeling, with good knowledge of FEA, CFD simulation and computer programming.

SOFTWARE DEVELOPMENT HIGHLIGHTED SKILLS Node.is MongoDB Neo4J GraphQL Apollo **REST API** Cypress.js Next.is React Storybook Sentry.js **HTTP TypeScript** Axios

PostMan

EXPERIENCE

Jest

Full-Stack Developer Dec. 2019 – Present

ClusterInc (Fully Remote)

Project: Core Product (Recruiting platform)

Enzyme

Description: Engineering recruiting platform specifically focused on the Mechanical / Electrical Engineering vertical.

Responsibilities: Guided technical development of the SAAS product. Served as Software Architect designing and

implementing critical systems. Authored 50% of codebase as a full-stack developer. Designed connections to

Styled-Components

third-party integrations. Built recommendation system from scratch

JWŤ

Achievements:

- Developed a custom real-time synchronization layer between MongoDB and Neo4j
- Designed and developed recommendation system for matching talent to jobs
- Managed micro-service development

Project: College-Collective & Cluster Universities (Degree search for community colleges)

Description: Search platform for finding affordable degrees from online community colleges.

Responsibilities: Full stack development of API and frontend features of the CRM portion of the app. Development of API

search algorithm. Joint development of user facing frontend.

Achievements:

- Built out over 95% of all code for CRM used to manage site data and provide analytics.
- Built aggregation used to handle search and filtering of all degrees.
- Helped code several frontend pages.

Expert Interviewer Karat (Fully Remote)

Sept. 2019 – Sept. 2020

Lead technical remote interviews for various software companies Description:

Responsibilities: Lead technical interviews serving as a subject matter expert in several programming languages. Assessed code quality in live paired programming sessions. Managed schedule for conducting remote interviews.

MECHANICAL ENGINEERING

HIGHLIGHTED SKILLS

Project management New product development **VBA** Programming Solidworks **FEA Analysis** Metrology

Process Improvement Rapid Prototyping **CFD Simulation**

Training and Leadership Plastics Design and Processing ASME Y14.5-2009 GD&T

EXPERIENCE

Mechanical Engineer

Stewart Filmscreen (Torrence, CA)

May. 2017 – Present

Responsibilities: Ended as Director of Engineering. Set Engineering department standards. New Product Development (Consumer Goods). Redesign existing products reducing manufacturing time and cost. Automated

Engineering drawing process. Developed costing for all products. Improved manufacturing process efficiency. Advised senior management on corporate improvement projects. Mentored Associate Engineers.

Achievements:

Designed and developed an award winning product in less than 3 months.

- Automated process to convert over 5000 CAD files from Inventor 2013 to Solidworks 2017 in less than 2 weeks.
- Reduced Engineering labor through the automation of the drawing process and BOM generation saving over \$60k.
- Provided accurate cost for current products through development of automated costing templates.
- Spearheaded cross functional initiative to get quick-ship program back on track
- Reduced inventory and condensed product line by developing one product to replace 5.

Product Development Engineer

Sept 2012 – Apr 2017

Dec. 2010 – Sept 2012

PAI Industries (Atlanta, GA)

Responsibilities: New product design and development (Cast metal, machined, plastic injection molded and composite parts). Foreign and domestic supplier acquisition, and management. Design of new equipment and testing procedures to reduce warranty cost by ensuring product compliance. Research and acquire new capital resources to expand manufacturing capabilities and lower production cost. Design validation through 3D modeling, FEA and CFD simulation. Prototype construction and 3d printing. Engineering data management. Physical product testing. PPAP / FEMA documentation and testing. Developed creative solutions for allowing sales staff to convey technical information simply and cost effectively. Advise senior management on nonconforming products. Audit internal ISO processes. Engineering presentations for improving customer relations. Training and mentorship of engineering staff.

Achievements:

- Decreased engineering development time up to 75% though implementation of 3d Laser scanning / employee training.
- 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 Pins by 50% though purchase of new equipment with 4 month ROI.
- Created a new system to organize the engineering data, reducing redundant work, lost / duplicate files, and confusion.

S-Body/Product Engineer

Supreme Corporation (Goshen, IN)

Responsibilities: 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.

Achievements:

- Strengthened key support structure by 85% while using 35% less part.
- Diminished total inventory by 45% through development of common parts across product lines.
- Employed improvements in product design resulting in a 20% reduction in fasteners and automation of assembly line.
- Reduced corporate losses by leading engineering changes to correct warranty and manufacturing.
- Boosted sales thought technical support and production of custom designed units on a tight schedule.
- Increased engineering output and corporate profits through training and supervision of new employees.

Engineering Manager

Feb. 2009 -Dec 2010

Dec. 2006 - July 2008

Marson International/Quality Fuel Solutions/Pit Stop Products (Elkhart, IN)

Responsibilities: Supported manufacturing thought the design, sourcing, assembly and inspection of

welding fixtures. Developed coordinates for CNC tubing process. Worked with Senior Management to develop new products (Automotive and Consumer Goods). Used 3d CAD to develop engineering documentation. Trained and managed 1 employee.

Achievements:

- Improved weld fixture accuracy and inspection procedures though enhanced use of FARO technology.
- Cut weld fixture production cost by reducing assembly time though innovative design.
- Successfully designed, built fixtures for and launched new deck railing system for recreational vehicles.

Automotive Engineering Internship (Paid)

Summit Polymers (Portage, MI)

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

Achievements:

- Used root cause analysis to effectively solve warranty issues for major automotive companies.
- Reduced design cost by hand building functional prototypes 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 though implementation of new corporate design standards.

EDUCATION

Bachelors of Science in Engineering, December, 2008

Western Michigan University, Kalamazoo, MI

Associate of Applied Science, May 2006

Southwestern Michigan College, Dowagiac, MI

Solidworks Professional Training in CFD / FEA / Sheet Metal / Weldments

Geomagic Design X Professional Training

Faro Edge Cam 10 Measure 2 Professional Training

PERSONAL ACHIEVEMENTS

Graduated from Western Michigan University with honors and highest GPA in major.

Certified Solidworks Professional

NAUI Dive Master Certification

USPA IAD Instructor Certification