**Bradley L. Tudor**

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**QUALIFICATIONS SUMMARY:**

**Full-Stack Developer:** Result-driven Fullstack Web Developer with experienced in MERN stack. Completed 427 hours of coursework.

**Mechanical Engineer:** 10 years of industry experience successfully leading projects. Specifically in cradle to grave new product development, continuous product improvement, process automation, manufacturing \ support and warranty analysis. Experienced in new employee training \ mentorship. Also extremely proficient in 3d modeling, with good knowledge of FEA, CFD simulation and computer programming.

**SOFTWARE DEVELOPMENT**

**HIGHLIGHTED SKILLS**

Node Express React Redux Apollo GraphQL HTML CSS SCSS Node RabbitMQ Regex REST API Nginx

**EXPERIENCE**

**Full-Stack Developer** June. 2017 – Present

Self-Employed (Torrence, CA)

*Completed Projects:*

* Title: GrowCtrl Feb. 2019
  + Description: Web based automated greenhouse and control system.
  + Url: <http://growctrl.herokuapp.com/>
  + Git: <https://github.com/Brad-Tudor-Eng/GrowControl>
  + Demo Credentials: *Available on request*

**MECHANICAL ENGINEERING**

**HIGHLIGHTED SKILLS**

Project management New product development Process Improvement Training and Leadership

Solidworks VBA Programming Rapid Prototyping Plastics Design and Processing

FEA Analysis Metrology CFD Simulation ASME Y14.5-2009 GD&T

**EXPERIENCE**

**Mechanical Engineer** May. 2017 – Present

Stewart Filmscreen (Torrence, CA)

*Responsibilities:* Set Engineering department standards. New Product Development (Consumer Goods). Redesign existing products reducing manufacturing time and cost. Automate Engineering drawing process. Develop costing for all products. Improve manufacturing process efficiency. Advise senior management on corporate improvement projects.

*Achievements:*

* Designed and developed 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 though the automation of drawing process and BOM generation saving over $60k.
* Provided accurate cost for current products though development of automated costing templates.
* Spear headed 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

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** Dec. 2010 – Sept 2012

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

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)** Dec. 2006 – July 2008

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

**PERSONAL REFERENCES**

**Managers**

**Dean Weldy**

Supreme Corporation Director of engineering- National Fleets

Cell Phone: 574-202-1695

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**Co-Workers**

**Kevin Mcglynn**

Mechanical Engineer at Stewart Filmscreen

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**John Harris**

Development Engineer at Yamaha Motor Corporation, USA

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**Mike Franks**

Product Engineer at PAI Industries

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**Jim Thelen**

Assembly Manager at PAI Industries

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