

Brandon Thompson
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Current Address: Indianapolis, IN

Education: Purdue University (West Lafayette, IN)
Bachelor of Science in Electrical Engineering Technology

Professional Skills

- Lean Six Sigma Practitioner ·
- LabVIEW and MATLAB ·
- Microsoft Office Suite ·
- DV/ PV Qualifications ·
- DFMEAs and PFMEAs ·
- Project Management ·
- Test Development in hardware, software, and firmware ·
- C#, .NET, SQL, APIs ·
- Capital projects ·
- ECAD / Electrical Simulation ·
- 3rd party qualifications ·
- Electrical/ EMC/ Environmental Test Plan Development ·

Professional Work Experience

Eleven Fifty Academy (Full Time Software Development Course (C#/.NET)/ Travelling and personal development/COVID-19 (Nov 2019 – March 2020)
Took time off to travel/ COVID-19/ Software Development Courses (continued education) ***November 2019 – Current 2020***

- Travelling/ personal growth in software development
- Currently finishing a full-time software development course in C#, .NET, HTML, CSS, APIs, GitHub (3-month course)

Delphi Technologies LLC. (Automotive Industry in Kokomo, IN) ***August 2017 – November 2019***
Validation Engineer II

- Managed all Validation efforts assigned to me to meet design requirements, scope, cost, and timing
- Responsible for all documentation and weekly reporting of project schedules and targets
- Collaborated on all projects with cross functional teams, engineers, and project managers to ensure project deadlines were met, validation documentation was complete, and financial constraints were met
- Responsible for all Environmental, EMC, and Electrical Test Plan development to ensure timely product launches for Design Validations and Process Validations
- Management of technicians and test development engineers assigned to each project team to verify testing efforts stay on target, roadblocks were removed to maintain scheduled targets
- Responsible for quoting with suppliers/ review of the quotes for accuracy/ Purchase Orders for engineers in my engineering department and negotiating those costs
- Responsible for assigning engineering Purchase Orders to the correct financial program versus Capital/ Expense and tracking of these categories
- Responsible for working with suppliers to maintain schedules for part delivery
- Responsible for ordering all test equipment and materials for engineering projects were ordered to ensure the timely start to projects

Duke Energy ***Feb 2015 – April 2017***
Control Systems Engineer (Energy Industry)

- Development of Control systems for power substations
- Independently designed substation prints and working with CAD to develop final prints
- Responsible for final review and check off for substation designs and wiring
- Designing and ordering materials for new substations and updating current substation equipment
- Working with material planners and relay technicians to ensure on time delivery of product and equipment and completion of design work
- 100% completion for all project deadlines and project work

- Collaborated with cross functional teams, engineers, and project managers to ensure project deadlines, safety compliance, and financial constraints were met
- Travel to electrical substations to review and provide engineering input for projects

Midcontinent ISO (Energy Industry)

July 2013 – Feb 2015

Design Engineer

- Use of Lean Six Sigma techniques (equivalent to green belt) to reduce waste in man hours
- Received a company award for a long-term automation project using SQL database extraction and programming to increase quality and decrease man hours on testing and validation efforts
- Automation using Excel VBA, .NET, and C# to improve quality and decrease man hours
- Business Analysis/ Project management/ Maintaining production schedule launches
- Independently using Power flow analysis for quarterly models
- Responsible for quarterly power models for production to maintain NERC and FERC regulations
- ORACLE database design and ability to develop functions, sequences, tables, procedures
- Developed SQL scripts for validation and retrieval of critical database information
- Provided 24x7 On-Call engineering rotational support for technical issues

Harman Embedded Audio, LLC. (Automotive Industry)

Jan 2012 – July 2013

Design Validation Engineer/

(Indianapolis Division shutdown and transferred operations to China)

- Submission of my first Patent Application during an extensive R&D project
- Responsible for all Automotive Design Validations, Production Validations, APQP and PPAP
- Managed all EMC and ENV. Validation efforts to meet design requirements, scope, and cost
- Decreased validation costs across the board on all automotive programs by 10% by negotiating and building new relationships with new test laboratories
- Managing and collaborating with international manufacturing facilities
- Developed test plans, flow charts, and scheduling for all automotive customers
- Engaged in R&D for new products and technologies to drive innovation
- Responsible for quoting and negotiating all automotive testing for product launches
- Actively engaged in DFMEAs and PFMEAs for product designs and production changes

Roche Diagnostics (Medical Industry)

10 month contract January 2011 – October 2011

**R&D Design Verification Engineer/ Quality Systems
finishing college)**

(Fixed Duration Employment - Contract position while

- Responsible for RF certification and design verification on new blood glucose meters
- Completed environmental and mechanical testing within ISO-17025 accredited lab standards
- Developed protocols and reports to exceed FDA regulated testing within IEEE 11073 standards
- Responsible for developing new protocols for FDA regulated testing on blood glucose meters
- Managed technicians to run test equipment to verify engineering design changes
- Identified Bluetooth Low Energy Protocol Analyzers for design and validation testing

Stanley Security Solutions (Manufacturing Industry)

May 2007 – May 2009

Electrical Engineering Co-Op

(Successful completion of Purdue University Co-Op Program)

- Responsible for validation testing for wireless, hardware, and software validation on new product releases
- Firmware validation testing, quality control, and verification of BOMs for accuracy
- Responsible for choosing new oscilloscopes and test equipment for the engineering lab
- Setting up test equipment and running product life cycle tests to ensure product quality
- Responsible for delivery and set up of test equipment at the circuit board manufacturer
- Working in an engineering team and cross-functional platform teams to meet customer demands
- Designed a test fixture for the manufacturing assembly line that increased production and quality
- Use of MATLAB / LabVIEW/ and PSpice for designing and testing/ troubleshooting circuits

References available upon request