**Brandon Thompson *boilerb83@gmail.com***

**Contact number**: (**317) 696-9240**  **Current Address**: Indianapolis, IN

**Education**: **Purdue University** (West Lafayette, IN)   
***Bachelor of Science***inElectrical Engineering Technology

**Professional Skills**

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| --- | --- | --- |
| ∙ 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) *November* 2019 – Current 2020**

***Took time off to travel/ COVID-19/ Software Development Courses (continued education)***

• 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 (Fixed Duration Employment - Contract position while finishing college)***

• 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**