

**Brandon Thompson**

***boilerb83@gmail.com***

**Contact number:** (317) 696-9240

**Current Address:** Brownsburg, IN 46112

## **Education**

**Purdue University** (West Lafayette, IN)      **Major GPA: 3.81/4.0**      **Overall GPA: 3.57/4.0**

***Bachelor of Science*** in Electrical Engineering Technology

## **Professional Skills**

- Lean Six Sigma Practitioner •
- LabView and Matlab •
- Microsoft Office Suite •
- DV, PV, PPAP, and APQP •
- DFMEAs and PFMEAs •
- Project Management •
- Schematic development •
- Continuous Improvement •
- Capital projects •
- ORACLE development •
- Mechanical aptitude •
- Excel VBA •
- Powertrain systems •
- RF test equipment •
- Troubleshooting PCBs •
- Test development in hardware, software, and firmware •
- Programming in languages of C, and .NET •
- Automated testing development using SQL scripts and programming languages •

## **Professional Work Experience**

**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/ (China)***

***(Indianapolis Division shutdown and transferred operations to***

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

**10 month contract January 2011 – October 2011**  
***(Fixed Duration Employment - Contract position***

- 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 full 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 by six times the normal test time
- Use of Matlab / Labview/ and PSpice for designing and testing/ troubleshooting circuits

**References available upon request**