

# PARTH SANDEEPBHAI SHAH

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My passion lies in developing from design to field and I am looking to leverage my interest in statistics, quality/reliability and disruptive products. Looking for a full-time opportunity that involves being part of the product development process

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## EDUCATION

**Purdue University, West Lafayette, USA**

**Jan 2020**

Master of Science in Industrial Engineering

GPA: 3.4/4.0

**Vellore Institute of Technology, Vellore, India**

**May 2017**

Bachelor of Science in Mechanical Engineering

GPA: 8.42/10

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## SKILLS

SPC, Lean Manufacturing, Six-Sigma, 5S, NCR/CAPA, Capacity Planning, FMEA, Reliasoft Weibull++, Python, Minitab, JMP, Microsoft Access, Excel, VBA, SQL, SAS, Tableau, C, C++, SolidWorks, CATIA, Time and Motion Study

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## WORK EXPERIENCE

**Western Digital – Reliability Engineer, San Jose, California**

*Jan 2020 – July 2020*

- Performed Life Data Analysis (fitting Weibull Distribution) and predicted Annual Failure Rate for Hard Disk Drives
- Designed test plans for accelerated temperature test for Hard Disk Drives
- Lead FMEA discussion with firmware/hardware changes and developed risk assessment matrix

**Reliability Engineering Intern –Tesla Motors HQ, Palo Alto, California**

*Jan 2019-Aug 2019*

- Conducted DFMEA sessions for the supercharger handles and generated risk/test tickets in the JIRA workspace
- Performed Reliability Life Predictions on Supercharger components using field data and identified top failures
- Created mission profiles/usage models of specific components of Tesla car using the field data
- Worked cross-functionally with design, test, firmware and service teams and gained experience with big data

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## ACADEMIC PROJECTS/EXTRA-CURRICULAR ACTIVITIES

**Forest Fire Project (STAT 512), Applied Regression Analysis, Purdue University**

*Spring 2018*

- Postprocessed and analyzed data related to forest fires in North American continent using SAS and JMP software
- Identified the various factors and compared multiple regression models to reduce the effect of collinearity
- Developed a regression model which predicted the fire rate using the certain factors

**Capstone Project, VIT University, India**

*Jan 2017- May 2017*

- Manufactured lightweight Carbon-Fiber Reinforced Plastic (CFRP) composites using the vacuum-bagging process
- Conducted standardized tests on the composites where the composites displayed higher bending strength than the conventional counterparts

**Member-SAE Aero Design Team, VIT University, India**

*Aug 2014-Mar 2015*

- Fabricated fuselage, wings and control-surfaces for a radio-controlled airplane using laser cutting machine
- Managed team-logistics, which involved inventory management and handling the shipping of plane from India to USA
- Secured 11<sup>th</sup> rank at inter-collegiate AeroDesign East Competition, USA organized by Society of Automotive Engineers

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## PUBLICATIONS

**Design and Analysis of Airfoil-Shaped Impeller Blades of Centrifugal Pump**

*2016*

APPLIED MECHANICS AND MATERIALS, VOL. 852, PP. 539-544

Designed a 3D CAD model of Centrifugal pump and conducted a comparative study of outlet pressure energy of a conventional impeller and airfoil-shaped impeller of a centrifugal pump. SolidWorks and ANSYS-CFX were used

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