

MOHAMMED ZOHAIB KHAN

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EDUCATION

NORTHEASTERN UNIVERSITY , Boston, MA <i>Master of Science in Industrial Engineering</i>	Sept 2018 – Dec 2020
UNIVERSITY OF MUMBAI , Mumbai, India <i>Bachelor of Engineering in Mechanical Engineering</i>	Aug 2013 – May 2017

SKILLS/ CERTIFICATIONS

Programming Languages:	R, Python, SQL
Tools:	Outlook, Visio, MS Office (Excel – VLOOKUP, Pivot Table, Macros, VBA), Minitab, SAP, AutoCAD, SolidWorks, ANSYS Workbench, SSMS, SPC
Business Intelligence Tools:	Tableau, Power BI, Qlik Sense App, Flourish, Datawrapper
Core Competencies:	Lean Manufacturing, Kaizen, Root Cause Analysis, DFMEA, PPAP, APQP, 8D corrective action process, ISO 9001, Capability Testing, Demand Forecasting, Cross-Functional Management, Project Management
Certifications:	Lean Six Sigma Foundations, LAI Lean Academy, Data Science Pro Degree

WORK EXPERIENCE

BorgWarner, Inc., Ithaca, NY <i>Quality Engineering Co-op</i>	Jan 2020 - Apr 2020
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- Documented 10 plus work instruction, routing cards and SOPs for operators to keep them updated with manufacturing changes
- Completed Root Cause analysis to uncover sources of component mixing and slashed component scrap by 30%
- Facilitated measurement of different transmission components and conducted capability analysis to support plant process changes
- Assisted quality auditors to implement 5S method in press room, heat treat & chain assembly area and achieved 20% of time-saving
- Collaborated with purchasing department to identify discrepancies in monthly scrap data by performing data cleaning and saved \$10,000
- Performed GRR and decreased measurement variation of chain pins from 13% to 8% by identifying incongruities in gage calibration

IL&FS, Mumbai, India <i>Management Trainee</i>	Dec 2017 - Feb 2018
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- Collaborated with a team of 25 engineers in commissioning of India's first DCS plant of 10,000 TR, in GIFT City Project, Gujrat, India
- Supported supervisor in developing capital budgets for township project and managed communications for efficient execution of projects
- Assisted project manager in preparation of estimates for bidding and coordinated with sub-contractors for proposals
- Developed and maintained critical path project schedule and backed project manager in preparation of look-ahead schedules

Ayaan Packaging Solution, Mumbai, India <i>Process Improvement Engineer</i>	Jun 2017 - Nov 2017
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- Conducted procurement optimization for consignment of 50 shipping pallets and reduced manufacturing cost by \$15,000
- Improved transactional and operational efficiencies by conducting market analysis and quality check of data for purchasing department
- Implemented 5S Tooling on shop floor and achieved 35% of timesaving
- Identified and eliminated constraints of 2 production lines by carrying out Value Stream Mapping
- Resolved capacity planning issues and aided in supply chain planning for future product rollouts by suggesting improvements in production

ACADEMIC PROJECTS

Data Integration and Visualization for Transportation Economics (USA) <i>Computation & Visualization</i>	Oct 2020 – Nov 2020
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- Completed data integration, data wrangling and data cleaning with 300K+ rows of data using R studio
- Visualized the data using Flourish to exhibit United States transportation economy trends from 1999 to 2018

Clinical Patient Journey Dashboard <i>Computation & Visualization</i>	Sept 2019 - Dec 2019
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- Examined clinical patient data based on demographic, medical history, chronic conditions, and providers in MS Excel
- Created dashboard which shows patient overall journey using Power BI and presented actionable insights to business stakeholders

Designed all levels of Data Abstraction for E-Commerce Company <i>Database Management</i>	Sept 2019 - Dec 2019
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- Developed model on MS Visio enforcing business rules of E-Commerce company and normalized ER into logical database on SSMS
- Implemented functions, stored procedures, and triggers to increase efficiency of data operations
- Built Power BI Reports and dashboards to demonstrate business decisions

Descriptive Analysis on gaming application data <i>Probability and Statistics</i>	Sept 2018 - Dec 2018
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- Performed the statistical analysis using MS Excel to find the most popular gaming application based on user reviews
- Applied sampling tests to evaluate the dataset distribution and ensure data quality
- Created the Tableau dashboard to depict the correlation between genre, price, and memory usage of the applications

Design of Composite gas cylinder using A.S.M.E standards <i>Product Design</i>	Aug 2016 – Mar 2017
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- Coordinated with a team of 5 members to develop and design the gas cylinder
- Designed the cylinder parts using SOLIDWORKS software and forecasted a cost reduction of the gas cylinder by 3%
- Evaluated the safety of the gas cylinder made from different materials using ANSYS Workbench software

Automobile Development Internship (A.D.I) <i>Automobile Development Training</i>	Jun 2016 – Jul 2016
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- Collaborated with 7 students and performed complete assembly and disassembly of 10 automobile engines
- Performed analysis of all categories of vehicle sales in India during 2015, and reported a growth in sales by 9.8% as compared to 2014
- Presented a report on the Indian automobile emission standards