

Shounak Deo

Raleigh, NC

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EDUCATION

- **North Carolina State University** Raleigh, NC
Master's in Industrial Engineering Aug 2019 - May 2021 (expected)
- **Savitribai Phule Pune University** Pune, India
B.E.-Mechanical Engineering Aug 2015 - May 2019

SKILLS

- **BI Tools:** Tableau, SQL, Power BI
- **Numerical Computation & Optimization:** MATLAB, GNU Octave
- **Statistical Computing:** R, JMP, Python, Minitab
- **Microsoft Office Suite:** Excel, PowerPoint, Access, Lucidchart

EXPERIENCE

- **Tetra Pak India Pvt. Ltd.** - Operations Intern July 2018 - July 2018
 - Collaborated with Field Service Engineers to produce assessment reports for over 25 filling machines.
 - Created Kraljic matrix for 35 suppliers according to critical, missing, damaged, mandatory replacement parts.
 - Prepared purchase orders for 100+ missing and damaged parts for each machine and expedited ordering by 20%.
 - Formulated tolerance limits for weight, volume and adequate sealing of packages as part of quality control during machine testing.
- **TOX Pressotechnik India Pvt. Ltd.** – Industrial Engineering Intern Jan 2018 - Mar 2018
 - Established system to calculate process cycle time for manual workstation based on application and run time to match with customer TAKT time.
 - Reviewed 30+ client RFQ to develop guidelines for standard dimensions for 6 workstations.
 - Assisted design engineers to measure process cycle time using various time study techniques.
 - Participated in muda hunting activities to reduce time spent on non-value-added activities by 57%
 - Documented research on OSHA guidelines for workstation design.

PROJECTS

- **Supply Chain Analytics Case Study** – *Rutgers Business School (Coursera)*
Measured and compared supply chain efficiency for Apple and Samsung in terms of cash conversion cycles and inventory measures based on 6-year historic data of Sales, Inventories, COGS, Accounts Payable and Receivable using Excel.
- **Supply Chain Management Strategy Project** – *Rutgers Business School (Coursera)*
Developed supply chain model based on data inputs of Logistics, Operations, Planning and Sourcing for a company to generate annual cost savings of over \$3.8 mn within the Supply Chain due to change in tax policy.
- **Cycle Time Calculation** — *TOX Pressotechnik India Pvt Ltd*
Measured cycle time through time study and developed macros in Excel VBA to calculate cycle time based on micro-motion analysis. Cross validated results against customer takt time with 92% efficiency.
- **Prediction Analysis of Bike Ridership Using Regression** – *University of California, Irvine: ML Repository*
Developed regression models using R for predicting number of bike riders on any day using 10 predictors. Best model was selected based on interpretability, accuracy (Adj. R^2 = 82.96%) and lowest error.
- **Formula SAE Japan** — *Formula Student Event at Shizuoka, Japan*
Project Manager: Head of Procurement, Manufacturing Operations, Logistics, Budget Allocation. Negotiated with domestic and international suppliers to save over \$31000 through discounts and sponsorships.
- **Continuous Improvement on College Campus** — *Savitribai Phule Pune University: Value Added Program*
Observational study to record time for repetitive activities, suggestions made to generate 50% time savings by 5S.