

## OBJECTIVE

Looking for full-time positions in Industrial Engineering, available immediately, to utilize my Industrial Engineering knowledge and previous 4 years of professional experience.

## EDUCATION

- **Master of Science** – Industrial and Systems Engineering (Aug 2016 – May 2018)  
Virginia Tech., Blacksburg, VA GPA : 3.8/4
- **Bachelor of Technology** – Mechanical Engineering (Aug 2009 – May 2013)  
HBTI, Kanpur, Uttar Pradesh, India CGPA : 3.5/4 (76.2%)

## WORK EXPERIENCE

### Manufacturing & Industrial Engg. Intern **TESLA – Gigafactory, Sparks, NV** (May 2017 – Dec 2017)

- Designed semi-automated line with **\$3.2 million annual projected savings**, working with Product Designers, Quality & Production, using Lean Manufacturing strategies to design manufacturing flow & process sequence. Drove Design for Manufacturing for the lines.
- Worked with external OEMs and suppliers (cost, lead time, specifications) for design & **validation of equipment** for the new line, as per line requirements & **specified GD&Ts**. Handled **outbound** testing parts for international **shipment**, keeping BOM in check
- Developed Equipment Specifications & concept of highly flexible, repurpose-able **MFM (Micro Flex Module)** models while working with Equipment Designers at **Grohmann, Germany** for the new line. Estimated labor, time, space & direct costs for the new line.
- Achieved **40% throughput increase** and **HC reduction by 1** on a major production line by performing **Time/Motion studies (MOST/MTM)** & line balancing, to improve overall line efficiency & throughput. Worked with **test team** to address test failure issues.
- **Reduced cycle time by 28%** of a major production line by implementing **KANBAN**, flow modification & redesign of layout. Led the cross-functional team responsible for process improvements & optimization across 3 major production lines.
- Modified manufacturing flow and process sequence. Also created the Manufacturing Instruction process document (according to **ISO TS 9001 guidelines**) for the new process flow, working with production team for operator training of the new process.
- Used **FlexSim** to simulate **Model 3 Penthouse** line & **Powerpack Pod** line to find resource utilization, bottlenecks & suggest recommendations. Found the yield-hitters & steps required to meet 2500/week capacity. Ensured implementation onto lines.

### Asst. Manager, Product Development & Project Management **Suzuki Motors, Gurgaon, India** (July 2013 – July 2016)

- Managed projects worth **50 million USD** for products from **concept to full ramp-up**, ensuring quality & on-time project completion.
- Managed **operations** & Troubleshooting of **design & production issues** with respective quality, testing, engg. & production teams.
- Worked with **Marketing & Planning** teams to generate automotive product concepts based on **market intelligence & opportunities**, and with **Supply Chain** teams to plan for the cost, volume and quality of the parts & new products, and **mitigate potential risks**.
- Worked on ergonomic improvements for **Suzuki Swift** (driver foot-fouling) & **Vitara Brezza** (rear egress), resulting in better design.
- **Performed Ergonomic validations** using RAMSIS, vehicle layout design & **competitor benchmarking** to improve current Suzuki cars.
- Participated in **procurement, supplier selection** (Technical specification, RFQs, evaluation), cost reduction through negotiation & **strategic sourcing** of products while working in the ergonomics group. Procured **low cost** products meeting required **quality**.
- **Procurement** of equipment's worth **~\$30,000** like wearable Eye-Tracker and 3D white light scanner for ergonomic design studies

### Supply Chain & Logistics Intern **Honda Motor Company, Greater Noida, India** (June 2011 – July 2011)

- Understood terms (Reverse Logistics, **Buyer Vs. Supplier power**, Supply Chain drivers, Strategic Sourcing Vs. **Should-cost Modelling**)
- **Redesigned** warehouse layout & performed **inventory management** using lean tools (RCA, 5S etc.) to **eliminate** pending VOR orders.

## TECHNICAL SKILLS

Demand Planning, Forecasting, Aggregate Planning, Sales & Operations Planning, FlexSim, AutoCAD, Solidworks, UG NX 10, RAMSIS, JACK (elementary), C++, SQL, MS Office – Excel, Word, Visio, PowerPoint, **Certified Six Sigma Green Belt, Certified Lean Green Belt**

## ACADEMIC PROJECTS

- **Supply Chain Consultant: S&OP to maximize client's profit (As part of coursework)**, build an optimization model for best production & promotional strategy over a given time period, analyzing various scenarios & associated costs to make recommendations.
- **Design of a Wafer Fab facility at Virginia Tech (As part of coursework)**, used AutoSched AP and AutoMod simulation software to design and simulate a multi-product line with sequencing and cycle time optimization.