

Shubham R Jain

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PROFESSIONAL SUMMARY

Mechanical Engineering Graduate student with 1 year of internship and 3 years of SAE Enterprise experience. Seeking *full-time employment* starting January 2021 for Manufacturing, Quality or Continuous Improvement roles.

EDUCATION

Michigan Technological University, Houghton, MI	Expected: Dec 2020
Master's in Mechanical Engineering <i>Manufacturing</i>	GPA: 3.88
Pune University, India	Graduated: July '18
Bachelor's in Mechanical Engineering <i>Design & Manufacturing</i>	GPA: 3.59

PROFESSIONAL EXPERIENCE

WHIRLPOOL CORPORATION, *Leading Kitchen & Laundry Appliance Company* Amana, IA
Manufacturing Engineering Co-op Jan '20 – Aug '20

- Assisted the Sr. Quality Engineer with daily activities while leading two major projects to final trials.
- Achieved **3000 PPM improvement** for door damage issues by modifying door protectors.
- Improved **First Pass Yield by 6%** for the Door Foaming Machine by sealing gaps to eliminate leaks.
- Got certified as a **Lean Six Sigma Green Belt** (Coursera) during a 2 week-long plant shutdown.
- Attacked frosting issues by 3D Modeling **Go/No Go gauges** to arrest bad units before shipping.
- Saved **\$6000/week** in scrap loss by upgrading the pallets on a conveyor system to reduce handling.
- Presented **kaizen summary & business case** to Senior Leadership for reporting the annual findings.
- Reached out to **Subject Matter Experts** for solving the top priority issues related to door value stream.
- Revamped **inspection criteria** by 3D Printing a gauge to mirror a part assembled downstream.

PROJECT EXPERIENCE

DOOR DAMAGE BLITZ, *Whirlpool Corporation* May '20 – Aug '20

- Identified top damaged areas in a **concentration diagram** & strategically modified the existing door armors.
- Successfully **eliminated scrap (3000PPM)** generated through loading & unloading from carts during the trials.
- Established a **temporary system** to keep track of scrap generated from assembly lines.

OPEN SOURCE ORTHOPEDIC SURGICAL TABLE, *MOST Lab, Michigan Tech* Sep '19 – Dec '19

- Designed parts for a **\$2k surgical table assembly** as an alternative to commercially available **\$100k equipment**.
- Contributed to the **Open Source Library** of components for cheaper & **decentralized manufacturing**.

LASER ENGRAVING BY 3D PRINTER, *MOST Lab, Michigan Tech* Sep '19 – Dec '19

- Reduced **changeover time** drastically to mount a laser engraver onto the 3D printer.
- Effectively **recovered the project's investment** by selling laser engraved university merchandise.

AIRPLANE PRODUCTION PROCESS IMPROVEMENT, *Michigan Tech* Jan '19 – Apr '19

- Using **time study and Kanban techniques**, reduced cycle time eventually below takt time.
- Improved Flow by **Layout Planning & Value Stream Mapping** and reduced labor requirements by **Heijunka**.

LEADERSHIP EXPERIENCE

TEAM VAMOS AUTOCROSS, *University Enterprise participating in Student Formula SAE events* Pune, India
Deputy Captain | Chassis & Body works Lead Aug '15 – Jul '18

- Reduced **air drag by 14%** and enhanced engine cooling by deploying underbody diffuser & radiator ducts.
- Designed a **12% lighter chassis** by radically changing the driver ergonomics and lowering the CG.
- Conducted workshops to **raise funds** and share the experience in building an F1 style prototype.
- Implemented jigs and fixtures to **error-proof** the welding process of the frame tubes.

CORE COMPETENCIES

Manufacturing: WCM, Lean Six Sigma, SPC, DMAIC, Kaizen, 8D, 5S, 5G, 5Y, 4M1D, HERCA, GD&T

Software: Minitab, Pivot Tables, AutoCAD, Creo, SolidWorks, Fusion360, NX CAD, Matlab, HyperMesh, Visio