

Abhinav Dua

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ACHIEVEMENTS

Certifications

- ▶ Certificate of **Active Participation** in Automobile Engineering Design Workshop at **IIT Delhi**
- ▶ **Spearheaded the team** in Effi-cycle for **coordination and management** of inventory shortage

Co-curricular

- ▶ **Participated** in National GK Olympiad and Oxford School Quiz Competition
- ▶ **Won** in several debates, drama and quizzing competitions at school level

ExtraCurricular

- ▶ **Organized** Blood donation camp as **coordinator** in College supported by PGIMER ,Chandigarh
- ▶ **Participated** in MOCK UN organized by DPS Society(2011)

Positions of Responsibility

- ▶ Active member of **Rotract Club** (2015,16)
- ▶ Infrastructural Head of **Goonj College Fest**
- ▶ Co-Head **Industrial Tours group** of Department
- ▶ Head **Cultural Committee** in school

Interests

- ▶ Indian Foreign Policy especially related to South Asia and ASEAN
- ▶ Keen follower of Union Legislative Process
- ▶ Descent basic Knowledge of Indian Economy

Hobbies

- ▶ Travelling to Historical Places
- ▶ Listening Music
- ▶ Debating

SOCIAL PROFILES



<https://www.linkedin.com/in/abhinav-dua-33b637125/>



<https://twitter.com/Dua1995Abhinav>

SUMMARY

- ▶ I am capable of working independently with minimum supervision and providing high quality service to every project.
- ▶ I am a motivated individual and a fast learner who consistently performs in challenging environments.
- ▶ I am a keen learner and take interest in learning about new ideas and innovations

ACADEMIC DETAILS

X

Delhi Public School, Faridabad | 2011
Marks - 10.00/10.00

XII

Delhi Public School, Faridabad | 2017
Marks - 94.20%

B.Tech/B.E.

Mechanical Engineering
University Institute Of Engineering And
Technology, Panjab University,
Chandigarh | 2017
Marks - 6.96/10.00

PROFESSIONAL DETAILS

Mechanical Engineer

1 Jun'15 - 31 Jul'15

Escorts Limited, Farmtrac Division

Project Name: **Optimize Assembly Gearbox Assembly Cycle Time and Diagnosis of Oil Leakage Points**

Methodology

- 1) **Implemented** As-is analysis to determine Line Capacity and Cycle time to identify bottlenecks in the assembly
- 2) **Performed** Root Cause Analysis to diagnose reduced capacities of Horizontal machining centers(HMC)
- 3) **Proposed corrective measures** to offload the constraints in HMCs curbing the delay in assembly cycle time
- 4) **Diagnosed** the oil leakage points by **comparing** the current recurring models with previously established cases

Deliverables

- 1) **Developed the hypothesis** of optimizing process chain aiming 23% reduction in gear box assembly cycle time
- 2) **Recorded** oil leakage defects in the test engine and **shortlisted the reasons** via probabilistic basis of occurrence

Mechanical Engineer

1 Jan'17 - 30 Jun'17

Escorts Ltd., Agri Machinery Group

Project Name: **Reason and Remedies for Rework of Gearbox Housing due to Hole Misalignment of $\Phi 25H8(PT-8+2)$**

Methodology

- 1) **Checked the record data** of rework of Gearbox housing at final stage of production
- 2) **Found faults** in Gearbox housing(8+2) due to machining defect, manhandling,



SKILLS

Operating System

Windows

Tools

MS Word

MS Excel

casting defect etc

3) **Drew a Pareto Chart** for all kinds of faults & found $\Phi 25H8$ fault occurring maximum no of times

4) Tool Recalibration done to **reduce tool disorder** and increase tool life

5) Inspection Gauges recalibrated in order **to remove errors** in inspection process

6) **Hole Misalignment corrected** via correction of improper difference in direction of tolerance limits

Deliverables

1) **Ensured finely calibrated** tools and gauges are used to measure exact diameter of dowel hole

2) Ensured **proper reaming and boring tools** are used to make dowel

3) Minimized tolerance and dimensional **defects**

4) **Reduced the rework percentage** of gearbox from **24% to 5%** in **6** months (reduction of 19%)
