

Meet Patel

<https://www.linkedin.com/in/meet-patel4>
<https://mpatel39.wixsite.com/meet4>

+1(906)370-8249
mpatel3@mtu.edu

2007 Woodmar Dr., Apt F
Houghton, MI-49931

SUMMARY

Graduate Mechanical student with two internships, SAE BAJA experience seeking for full time opportunity starting from May 2019 in the field of Design & Manufacturing, Emission Development, Lean Manufacturing and, Quality Assurance.

EDUCATION

Michigan Technological University | Houghton, MI

Expected May 2019

GPA 4.0 | MS Mechanical Engineering

Indus University | Ahmedabad, India

June 2016

GPA 4.0(converted) | B.Tech Automotive Engineering

INDUSTRIAL EXPERIENCE

Emission Development Co-op | **Cummins Inc.** | **Columbus, IN**

Sept 2018- Present

- Planned and executed extensive 3 months testing on HORIBA PN PEMS (Particle Number Portable Emission Measurement System)
- Based on this project's presentation and internal technical report, Cummins has decided to acquire this instrument worldwide to meet Europe and Chinese regulations
- Measured and analysed according to new regulations on Carbon Balance Absolute Error(CBAE) from engine testing under GHG Phase 2 rules
- Gained experience with setup and working of Constant Volume Sampling(CVS) and Raw Transient test cells for Mid and Heavy-Duty Engines

Quality Intern | **SKF Technologies (India) Pvt. Ltd.** | **Ahmedabad, India**

June 2015- July 2015

- Implemented 5S and Kaizen tools into plant which reduced downtime and production time
- Acquired thorough understanding of Quality Control methods like SPC, DMAIC and TQM for production also used them for reducing wastes and increasing productivity

Design and Manufacturing Intern | **Harvik Engineering** | **Ahmedabad, India**

Sept 2016- Dec 2016

- Minimized production cost up to 20% and time up to 25% by Redesigning product and flow of manufacturing processes
- Used ANOVA and Lean Manufacturing methods for reducing production time and quality of product
- Designed new parts into CAD software according to customers' specifications

Pre-owned car executive | **Planet Automotive Pvt Ltd** | **Ahmedabad, India**

Jan 2017- June 2017

- Pre-owned car evaluation by observing its on road working and body condition
- Sold used cars to customers and gained experience of customer satisfaction

PROJECTS

SAE BAJA 2016 and MEGA ATV 2016

March 2015- April 2016

- Design Head and Secretary of the team, which also included work load distribution among the team
- Developed ATV chassis and parts using PTC CREO and fabricated them using various mechanical operations
- Reduced 18% weight of car compared to last year by design optimization using ANSYS

DOE and Support Vector Machine to increase reliability

Sept 2017- Dec 2017

- Used SVM to find predicted curve of reliability in MATLAB
- Performed 27 experiments for various levels and derived conclusions from ANOVA table in Minitab
- Suggested minimum number of data points and sampling method to get high reliability

Design and Additive Manufacturing of Turbocharger

Jan 2018- May 2018

- Prepared assembly of turbine & compressor wheels, shaft and casing into NX 11 software
- Converted assembly file into STL file and then 3D printed that assembly into single part using Inkjet printer, which saved lots of machining time and also increased accuracy of dimensions

TECHNICAL SKILLS

- | | | | | |
|------------|--------------|---------------------------|--------------------|-----------------------|
| • PTC CREO | • MATLAB | • GD&T | • Emission Testing | • Lean Manufacturing |
| • AutoCAD | • Solidworks | • Finite Element Analysis | • FMEA | • Production Planning |
| • ANSYS | • NX | • DOE/Minitab | • DFMA | • Quality Control |

EXTRA-CURRICULAR ACTIVITIES

- Completed online course of **Lean Six Sigma Green Belt** from Udemy.com
- Active member of **Leaders in Continuous Improvement** | Michigan Tech, USA

March 2018

Jan 2018 - Present