



**Mayank Prakash (Certified Lean Six Sigma Green Belt)**  
**Deputy Manager – Manufacturing Engineering**  
E-mail:- [mynkindia@gmail.com](mailto:mynkindia@gmail.com)  
Mob:- +91 8619794672

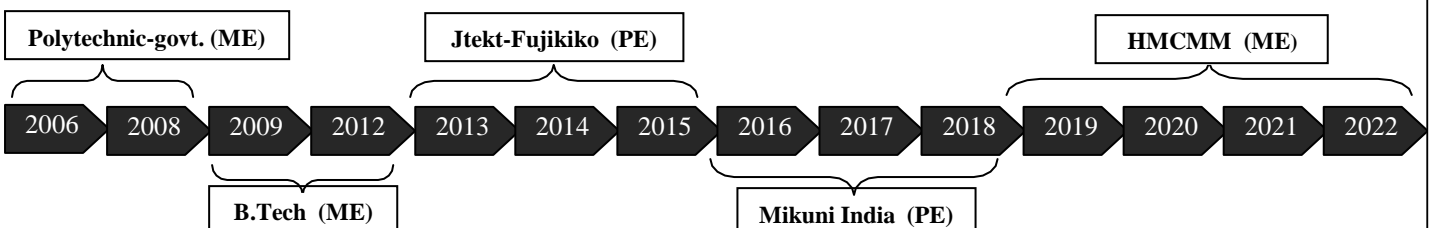
An experienced professional and successful track record of leading New Development projects. Possess a clear understanding of the industry and technology trends with distinction of instituting Quality Control techniques to achieve Process Excellence at the lowest overall cost. Targeting assignments in Process Excellence, Concept Design, Improvement & Product Development.

### Profile Summary:

- A competent professional with 10+ years of proven success in:
  - **Process Engineering**
  - **Design Engineering**
  - **Process Excellence**
  - **New Product Development**
  - **Industry 4.0**
  - **Green Field Project**
- Responsible for New Product Processing, Feasibility Checks, Make vs Buy, Per Piece Cost Reduction, **Manufacturing Plant Layout Design**, Technology Benchmarking, Process Setup, Production Scheduling, Rejection & Wastage Reduction, **Capacity Optimization, Productivity Improvements.**
- Team Leader of **Green field project** for Establishment of New Plant for **Electronic Fuel Injection System, VVT, Fuel Pump & BLDC Motor.**
- Project leader for establishment of Manufacturing Execution system (MES) software, **Real time shop floor data collection and Analysis** (Production, Maintenance and Quality)
- Responsible for preparing Business Case & Feasibility Study of Fuel Pump, Throttle body and Carburetor assembly line Projects.
- Expertise in Assembly and Testing process like **Pneumatic and Hydro-Pneumatic presses, Leak Testing, Manual & Auto assembly, Flow Testing and Adjustment, Dispensing, Spot & GMAW welding, Performance Testing, Laser marking and EOL Testing.**
- Proficient in methodologies like Time and Motion study, Line Balancing, SMED, Value Stream Mapping, Kaizen, Chaku-Chaku, Process & Capacity improvement Tools.
- Expertise in Process Design and conceptualization, CAPEX, OPEX, Equipment Spec & RFQ finalization, **Jig, Fixture and Machine Concept design and Design approval, Competitive supplier selection,** Commissioning, Productivity enhancement and Project handover.
- An effective communicator with excellent relationship management skills and strong analytical, problem solving & organizational abilities. Possess a flexible & detail oriented attitude.

### Core competency:

- Project Planning and Monitoring
- Supplier Selection & Negotiation
- Time & Motion Study/ VSM
- Root Cause/why why Analysis
- Team Building and Leadership
- New line Setup/ Capacity Enhancement
- Layout Design and Flow optimization
- SPM and Jig Fixture Design
- RFQ & Spec Finalization
- Industry 4.0, Traceability and Data studio
- Break down management
- Process Excellence
- Process Improvement and VAVE
- SMED, Kaizen & process optimization
- CAPEX & OPEX
- Process Design/ Assembly and Testing
- Concept Design and Engineering Calculations
- AutoCAD, Solid Works & Free Hand Sketching
- Trials, PV, PP1, PP2 and SOP
- APQP, PPAP & PFMEA



## Green Field Projects:-\_\_

- **HMCMM auto Ltd.** (BLDC Motor, Electronic Throttle Body and Inlet Pipe Assy.)
- **Mikuni India Pvt Ltd.** (Variable Valve Timing Assy & Testing)

## Projects & Achievements:-

- **New line Setup** (10+Nos)  
Products - **Carburetor, Electronic Fuel Injection system, Variable valve timing, Steering Culum assembly, BLDC Motor & Fuel Pump.**  
Customer - Hero Motocorp, Yamaha India, Honda 2wheeler, Harley Davidson, Maruti Suzuki India, Volvo, Royal Enfield.  
Activity - Feasibility Study, CAPEX, Process design, Layout Design, Jig Fixture & Machine Design and commissioning, Pre production Trials & Line Balancing
- **In-house Machine Building** (Cost Reduction 40% on each Machine & Modify Older machines for new Lines)  
Machines - **Press, Leak testing, Flow Testing, Caulking, Marking, And Screw Tightening, Performance Testing & Product Validation.**  
Activity - Design Team Setup & Training, Tool room & Fabrication Machine Procurement, Supplier Selection, Machine standard Preparation.
- **Industry 4.0-** Implementation of Real time data collection and Management Information System (**MIS**) software, Real time Report generation and Machine learning.
- **Improve Straight Pass Rate** from 72% to 98% for Carburetor Assembly Line (Hero).
- **SMED** Project, Reduce setup changeover time in Steering Culum Assembly Line (from 39 minute to 8.5 minute)
- **Break down time reduction** for Steering Culum assembly line (210 min to 30 min per week)

## CURRENT EMPLOYER -HMC Auto Ltd. ( Jan 2018 to present)

Designation: **Assistant Manager (Manufacturing Engineering)**

HMCMM (Hero Moto Corp & Magneti Marelli JV) is a leading fuel Injection (**Electronic Throttle body, Injector and Fuel Pump**), ECU and transmission manufacturer. It supplies to Hero Moto corp & BMW.

## MIKUNI INDIA PVT LTD (June 2015 to Jan 2018)

Designation: **Process & Design Engineer**

MIKUNI is a leading Japanese fuel system (**Carburetor & Electronic Throttle body**) manufacturer and other products are VVT (**variable valve timing**) and PIM  
Major customers of Mikuni are Yamaha, Harley Davidson, Royal Enfield, Maruti Suzuki, Hero, Honda, Volvo and Bajaj

## JTEKT FUJIKIKO AUTOMOTIVE LTD: (July 2012 to June 2015)

Designation: **Executive engineer**

JTEKT Fujikiko (Formerly known as Sona fujikiko automotive ltd) is a Japanese MNC which manufactures **steering Culum assembly** for Maruti Suzuki, Honda, Toyota, Nissan and Mahindra & Mahindra.

## Key Deliverables:-

- Supports or leads project teams to focus on continual improvement activities, new product or process introductions, and cost reduction projects.
- Conduct development trial (Individual machine trial, Total Line Check) for event **DV1, DV2, PP1, PP2 & SOP.**
- Design and selection of jig, fixture and Machine for new product (assembly line)
- Project estimation and costing /Budget preparation.

- Executes **cost reduction and process improvement** projects in line with business objectives.
- Define specification book for new equipment and tooling for RFQ requests.
- **Commissioning** of new equipment at Production Lines.
- Preparation of plant layout, re-layout of present set up & layout improvement for effective utilization of available resources
- **Tool Management:** Planning, Procurement & Maintaining of Tools required for Assembly Lines, Providing Cost effective tooling.
- Support Maintenance team for repetitive issues and tool modification to reduce **MTTR** and Increase **MTBR**
- Implementation of **Kai Zen and Pokayoke**
- **Setup of New lines** for Electronic Throttle body assembly -BSIV (**RFQ Generation, Technical and commercial proposal analysis, Supplier selection, Concept finalization, Design approval, Trial & Inspection, Line balancing, Process stabilization** and customer trail)

#### Other Activities:

- **Core Member of CFT for Development** of Electronic throttle Body, Variable Valve Timing, and Fuel pump Assembly line.
- Core Member of CFT for Selection of Plant equipments, Machines and standard benches.
- **Faculty for Internal Training** on Free Hand Sketching, Concept Design, Breakdown handling and Design Calculation.

#### Certification and Trainings:-

- **MSA, SPC** and **FMEA** certification by **AIAG**.
- **Lean six sigma Green** certification by **TUVSUD**
- In-house Training on Pneumatics, Sensors & Motion Chart, Basic PLC and Robot Programming.
- Concept design and free hand sketching certification by Mikuni Corporation.
- CNC programming and Maintenance training by ACE Micrometric.

#### Academic Qualifications:-

• B.Tech. (Mechanical)	2012	UPTU, Lucknow	68 %
• Diploma (Mech. Production)	2009	BTEUP, Lucknow	75 %
• HSC (10+2)	2006	UP, Board	72 %
• SSC (10th)	2004	UP, Board	69 %

#### Extra Curricular Activities:-

- Qualify **CEED 2015** exam in **product design stream** (Conducted by **IISC, Bengaluru**).
- Participate in **Drawing & Painting competition** and won several prizes.

#### Personal Details:-

• DOB	27 August 1990
• Marital Status	Married
• Permanent Address	559/6 Radhanagar II, Bulandshahr, 203001
• Languages adept in	Hindi and English

(Mayank Prakash)