

IRFAN BASHA B M

Sr Lead – Manufacturing Excellence and Assembly Concepts

Lean Six Sigma Green Belt | IPMA Level 'C' Project Manager | APQP Specialist | Industrial Engineering Specialist | Electronics and Aerospace Industry



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With 12+ years of experience, proficient and specialist in leading successful New Projects, Manufacturing & Operational Excellence, New Footprints and Upgrades in Process Engineering, New Product Introduction function & Industrial Engineering across various specialisations like Renewable Energy, Electronics Assembly, Machine Assembly, Aerospace including India, Asia Pacific, Europe and taking initiatives for business excellence through process improvements and engineering changes; enterprising planner with a strong record of contributions in on time delivery of tasks, streamlining operations, invigorating Businesses, heightening productivity, systems & procedures.

Industry Preference: **Renewable Energy, Electronics & Electrical panel Manufacturing, Aerospace Electronic components, Variable Frequency Drives manufacturing, Convertors and Inverters Manufacturing, Automobile & Advanced Manufacturing.**

SKILLS

Manufacturing Excellence	Industrial Engineering	Process Engineering & Improvement	Lean Manufacturing & Six Sigma
Green Field & Brown Field Projects	Project Management	New Product Introduction	Design For Excellence
APQP Specialist	Assembly & Layout Concepts	Quality Management Systems	PFMEA & Risk Management
Low Cost Automation	Continuous Improvement	Tool Equipment Standardisation	Project Feasibility Studies & Action

KEY STRENGTHS

Concept Development :

Expertise in overseeing the Process assembly concepts, Production Layout concepts, Tool Equipment Concepts, Jigs & Fixture design complying with the PFMEA, DFX & other process improvement techniques.

Industrial and Manufacturing Engineering :

Having strong skillset in Manufacturing Excellence & Industrial Engineering, swiftly ramping up quality enhancement projects with competent cross functional skills and ensuring on time deliverables within pre-set cost parameters. Lead the adoption of industry's best practices in Design, Manufacturing Optimization and Quality Management, bringing innovation and efficiency to our processes.

New Product Introduction :

Development of NPI process, tools & simplification of NPI process with Process & Business Process Excellence. Hold project gate reviews in line with project timing and NPI process requirements and meet all deliverables on time. Being a part of Product development/Prototype phase, Handling a Centre of Excellence team of 6 members who Provide necessary Documentations & support for production lines & closely cooperating with project team for reporting & project status.

Process Engineering & Improvement:

Extensive experience in managing process engineering functions, optimizing assembly operations, and streamlining production workflows. Adept at introducing new product development activities, implementing process controls, and enhancing productivity through Lean, Kaizen, Six Sigma, and other continuous improvement methodologies.

Design for Manufacturing and Excellence :

Employ Design for Excellence (DFx) principles to optimize project timelines and costs, ensuring efficient design practices. Utilize data analysis to identify process inefficiencies, pinpoint areas for improvement, and make data-driven recommendations. Facilitate seamless transitions from R&D to Manufacturing through collaboration with cross-functional teams, including R&D.

Foot Print Development :

Developing Pop-up factories across different countries, Greenfield or Brownfield, to enhance organic growth, improve the global presence, and manage customer contracts. This job Includes factory location identification and infrastructure development. Developing & supporting the new business location until it can function independently.

Lean Manufacturing :

Using Lean tools extensively in shop floor. Familiar in practicing Value Stream Mapping, Process mapping, 6S, Spaghetti chart and Visual Management. Draft and design workplace layout as per ergonomics standards and human factors, Line Balancing, Cycle time reduction, Work method finalisation for each process and Productivity improvement.

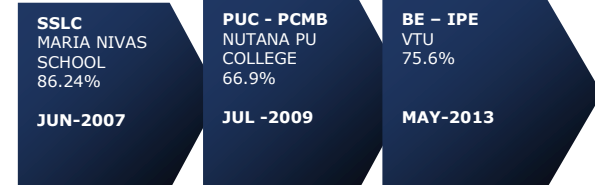
New Product Development (NPD) & Product Lifecycle Management:

Skilled in managing the entire lifecycle of product development, from initial concept to mass production. Adapt at coordinating design, testing, and production phases, managing cross-functional teams, and ensuring that new products meet quality, cost, and timeline requirements

CAREER TIMELINE



EDUCATION TIMELINE



WORK EXPERIENCE



KK Wind Solutions India Private Limited., Bangalore. Sr Lead - Manufacturing Excellence & Assembly Concepts Global Manufacturing Technology.

January-2019 to till date

Key Result Deliverables:

- Expert in Concept development for Process, Tools, Equipments & Production layout to seamlessly handover the NPI projects to Mass production.
- Develop and implement the global processes aimed at performance evaluations and improvement initiatives, driving impactful changes across the organization.
- Lead the adoption of industry best practices in design, manufacturing optimization, and quality management, bringing innovation and efficiency to our processes.
- Employ, Facilitate, Conclude & Report the Design for Excellence (DFx) principles to optimize project timelines and costs, ensuring efficient design practices.
- Enhance risk management and product quality assurance by continuously developing Process Failure Mode Effects Analysis (PFMEA).
- Utilize data analysis to identify process inefficiencies, pinpoint areas for improvement, and make data-driven recommendations.
- Facilitate seamless transitions from R&D to manufacturing through collaboration with cross-functional teams, including R&D.
- Define and oversee change management efforts for the smooth integration of new processes, technologies, and designs.
- Conducting Process mapping sessions for process optimization with tangible benefits.
- Uplifting the team with the quarterly reports of IE & submit to management review
- Specialist in NPI Programmes, accountable for all NPI processes within the organization.
- Developing **Pop-up** factories across different countries, **Greenfield or Brownfield**, to enhance organic growth, improve the global presence, and manage customer contracts. This job Includes factory location identification and infrastructure development.
- Developing & supporting the new business location until it can function independently.
- Planning the expatriate resources for training during the establishment of the factory.
- Project Transfer or Migration to the new factory location. Run pilot lot production.
- Enhance the NPI Process by Introduction of smart apps, Process simplification method with Process & Business Process Excellence.
- Responsible for improvement using Lean tools extensively in shop floor such as Value Stream Mapping, Process Mapping, TPM, 6S, Spaghetti chart & Visual management system.
- Responsible for **Process planning, Equipment and Capacity planning enhancement.**
- Responsible for workplace layout as per Ergonomics standards and Human factors, Line balancing, **Cycle time reduction, Work method finalization** for each process and Productivity Improvement.

Achievements:

- Awarded MVP for Industrialization support for AA1 Converter Panel in KK Poland Site.
- Created a DFX Process Package to validate the product design through a standard process approach.
- Leading the Centre of excellence team to support the Global Manufacturing functions in terms of process enhancement & documentation.
- Successfully lead to develop an Application for NPI quotation process using power BI & automations to reduce the lead time of quote deliver to 50%.
- Handling Global Manufacturing Community to share the knowledge globally and improve the Manufacturing Process.



Delta Electronics India Private Limited., Hosur.
Industrial and Process Engineer.

July-2017 to December-2018

Key Result Areas:

- Responsible for **New project Industrialization** by swiftly ramping up quality enhancement projects with competent cross-functional skills and ensuring on time deliverables within pre-set cost parameters.
- Responsible for improvement using Lean tools extensively in shop floor such as Value Stream Mapping, Process Mapping, TPM, 6S, Spaghetti chart & Visual management system.
- Handling the configuration management activities in **Windchill PLM** - Raising Engineering Change Request, Raising Engineering Change Note, Updating BOM variance.
- Executing the flawless manufacturing using **Manufacturing Execution System** which complies **Industry 4.0**.
- Capturing the Standard cycle time, Tact time and updating the routing time for the respective work centers in SAP.
- Responsible for **Process planning, Equipment and Capacity planning enhancement**.
- Responsible for workplace layout as per Ergonomics standards and Human factors, Line balancing, **Cycle time reduction, Work method finalization** for each process and Productivity Improvement.
- Documenting the process documents such as Operating Instructions, **FMEA, Process Flow diagram and Process control plan**.

Achievements:

- Successfully designed and implemented the **AGV** system of material handling with respect to tact time and visual management systems, Hence **50% reduction** in manpower and time of material supply.
- Successfully implemented the automation of **Soldering process using the DELTA SCARA ROBOT**, resulting the **13%** cycle time improvement.
- Successfully implemented the Auto gluing process using GANTRY ROBOT, resulting in reduction of manpower and cycle time.
- Successfully took a lead in **transferring and New product industrialization** of 16 projects.
- Successfully implemented the **Auto carton box packing process** using the Random carton packing machine.
- Implemented the **Video operating Instructions** to new operators for easy understanding of process.
- Received **Debutant of the quarter award**.



Hical Technologies Private Limited., Bangalore.
Industrial Engineer.

May 2014 to July 2017

Hical is leading manufacturer of Electromagnetic & Mechanical assemblies, advanced integration, Wire Harness, Traction converters & provides Integrated Engineering services to the world's leading Aerospace, Defence, Auto & Medical speciality industrial customers.

<http://www.hical.com>



Hytech Industries, Bangalore.
Industrial and Production Engineer.

July 2013 to April 2014

Hytech Industries is one of the specialists in manufacturing Gears and Gears boxes. They are the producers of Straight & Helical bevel gears, Shaved gears, Spur, Helical, Rack, Sprockets, Spline shafts, Worm and Worm wheel.

<http://www.hytech-industries.com>



TECHNICAL SKILLS

Manufacturing Packages: MES, PLM, SAP, Microsoft Dynamics, D365, APIS, TULIP.

Design Packages: Auto-Cad 2017, Pro- E, Solid Works2004, Solid works Composer.

Data Analytics Packages : Power BI, SharePoint Analytics.

CERTIFICATIONS & TRAININGS

Lean Six Sigma – Green Belt :

Qualmind Global

Credential ID - QMGHT4945

Certified International Project Manager - Level C

IPMA

Credential ID - C20211173

Value Stream Mapping & Design

KKWS

Credential ID - NA

APQP4Wind Specialist

DNV, Denmark

Credential ID - 18827

LANGUAGES AND PERSONAL ATTRIBUTES

English

Full Professional Proficiency

Kannada

Full Professional Proficiency

Hindi

Full Professional Proficiency

Intellectual Curiosity

Strategic Leadership Skills

Impeccable Analytic Skills

Innate Problem Solver

I hereby declare that the details furnished above are true to my knowledge.

Date

Irfan Basha B.M.