



## PROFILE

**Innovative Engineering Leader** with **25+ years** of distinguished expertise in advanced product development, precision manufacturing, and complex systems integration across **Aerospace, Automotive, and Industrial** domains.

**Technical Excellence:** Expert in CAD/CAM technologies, APQP methodologies, roto-dynamic analysis, structural-thermal modeling, and precision tooling for mission-critical applications.

Master of end-to-end engineering lifecycle from conceptual design through industrialization, with proven success in delivering cutting-edge solutions for global clients.

## CONTACT

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### LOCATION:

Bangalore, India

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Z7588497

## LANGUAGES

English (Fluent)

Hindi (Fluent)

Telugu (Fluent)

Kannada (Fluent)

Tamil (Fluent)

# M. BHARGAVA RAMAKRISHNA

DESIGN & NPD HEAD | TECHNICAL PROGRAM MANAGER |  
ENGINEERING LEADER

## EXECUTIVE SUMMARY

**Innovative Engineering Leader** with **25+ years** of distinguished expertise in advanced product development, precision manufacturing, and complex systems integration across **Aerospace, Automotive, and Industrial** domains. Master of end-to-end engineering lifecycle from conceptual design through industrialization, with proven success in delivering cutting-edge solutions for **Airbus A330 wing structures, Boeing F-15 components, Continental pressure sensors, and Bosch power systems**.

🏆 **Awards:** GEM Award (Boeing F-15, 2022) | Quality Circle Forum India Award (2021) | Kitchen Top Machine Innovation

## WORK EXPERIENCE

### Design & NPD Head

#### MACUREX SENSORS PVT. LTD.

Jun 2023 – Present

Technical Program Manager for power systems, electro-mechanical and electronic sensors for global automotive clients. Lead automotive & domestic appliance verticals for end-to-end business development and NPD.

**Key Clients:** Kirloskar Oil Engines, Bosch USA, Continental Automotive, SEG Auto, ZF, TVS

### Senior Manager - Design

#### DYNAMATIC TECHNOLOGIES LTD.

Feb 2013 – Jun 2023

Project Lead for aircraft tooling and power systems, specializing in commercial aircraft wing structures and helicopter tooling.

- Airbus Programs:** A330 wing structures, bush-pressing machines, tilting mechanisms, PDR/CDR/FDR documentation
- Boeing Programs:** Chinook helicopter assembly, F-15 mill parts (**GEM Award**), drill jigs and fixtures
- Bell Programs:** Bell 407 helicopter form blocks, cockpit assembly systems, complete tooling solutions

### Senior Design Engineer

#### FLOWERVE INDIA CONTROLS PVT. LTD.

Jun 2006 – Feb 2013

Team Leader for six designers, specializing in high-pressure pumps, hydraulics, and piping systems.

- Shell USA:** Screw pump casing design and leak analysis for subsea applications
- Industrial Solutions:** High-pressure pumps for power plants, petrochemicals, impeller design, roto-dynamic analysis

### Senior Engineer - Design

#### HENSAL INDIA PVT. LTD. (MAINI GROUP)

Feb 2003 – Feb 2006

*Collaboration with Burkhardt GmbH, Germany*

Kitchen Top Machine development from concept to production, hydraulic &

## ARTIFICIAL INTELLIGENCE:

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Utilizing AI-powered applications to provide innovative engineering solutions. An AI-driven chatbot integrated into a personal website to answer visitor questions in real-time. **Using Python Computer Vision, NLP, Next.js**

### AI-Powered Drawing and Documents Analyzer:

An advanced tool that utilizes computer vision and NLP to analyse engineering drawings and technical documents, extracting key information, verifying compliance, and identifying discrepancies. **Using JavaScript, D3.js, HTML/CSS, Python.**

pneumatic press design (25-100 ton). Successfully converted DIN standards to ISO requirements under German safety standards.

## CAD Engineer

### METFORM ENGINEERS

May 1999 – Feb 2003

Automotive components design for cold forging applications.

**Clients:** MICO Bangalore, Robert Bosch, Lucas TVS Ltd., Sriram Fuel Injection

## EDUCATION

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### VISVESVARAYA TECHNOLOGICAL UNIVERSITY (VTU), BANGALORE

Bachelor of Engineering in Mechanical Engineering

2012

### DIPLOMA IN MECHANICAL ENGINEERING

1997

## CORE COMPETENCIES

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### Leadership & Management:

Technical Program Management, Cross-functional Team Leadership, Project Planning & Execution, Client Relationship Management, Business Development

### Engineering & Design:

New Product Development (NPD), Manufacturing Industrialization, APQP Implementation, 3D Modeling & CAD Technology, Design Visualization & Precision Engineering

### Industry Expertise:

Aerospace (Aircraft tooling, wing structures, helicopter assembly), Automotive (Sensors, power systems, electro-mechanical components), Industrial (High-pressure pumps, hydraulics, metal forming machines)

### Quality & Standards:

Airbus Tooling Procedures, Boeing Quality Standards, German DIN Standards, ISO Implementation, AS2100 certified as internal auditor, Continual Improvement Processes