

# Curriculum vitae

## Dr J Ashok

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Address for

communication

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KPHB Colony,

Hyderabad

**Career Objective:** Zeal to be associated with a highly competitive and reputed organization that gives me the scope to contribute my innovative design solutions and efficient implementations. Seeking to be involved as a part of the team that dynamically works towards the growth of the organization. which in turn helps to enhance my career.

### **Professional Summary**

- Mechanical engineer with more than 10 years of experience in design and teaching field.
- Able to **guide young engineers** in fulfilling their dreams in design.
- Able to **teach any age group** the required finishing school skills and mentoring skills.
- Worked with more than **20 on site projects** around the country.
- Proficiency in **Conceptual 3D Designing & Modification, Solid Modeling, Detailed Drafting and Systematic Up graduation as per client's requirements.**
- Exposure in end-to-end project planning & implementation, activity sequencing, design engineering, ● Strong ability to **create/read/interpret drawings** with proficiency in designing new products in conformance to predefined technical specifications.
- Good **knowledge about Aluminium materials** and their applications.
- Knowledge in **GD&T**, detail drawing and reverse engineering
- Possess **excellent communication, analytical and relationship management** skills.

### **Project Highlights**

- 5 cylinder Head used in Automotives.
- Aircraft interior and seat design.
- Die design and analysis for injection molding.
- Fabrication of Electric bicycles.
- Design and Fabrication of tools.
- Friction stir welding of Aluminium.
- Super first class seating panel design with a precision of 0.0254mm.
- Wall rendering machine design and fabrication.
- Compact automotive techniques.
- Portable container houses/recreation purpose

### **Competencies overview**

Engineering / Design Operations: Analyzing and producing the technical requirements and specifications & recommending design modifications based on client requirements, Handling 3D product design & development for KBE (Knowledge Base Engineering) based Modeling. Troubleshooting all technical problems; conducting various tests & inspections to ensure that products developed are in compliance with pre-set technical specifications. Preparing & following execution of projects with project tracking sheets & adhering to the deadline given by the customer.

Key Deliverables:

- Analyzing and producing the technical requirements and specifications & recommending design modifications based on client requirements.
- Collection of different variants based on the product.
- Developing the conceptual design of products scheduled for development, first sample approval and modification as per client requirement.
- Making required changes to fulfill Client requirements.
- Designing and modifying products to meet customer requirements & translating the design model using various modeling tools.
- Fixtures designing and detailing for machining of automobile components.
- Quality checking drawings as per customer standards.
- Sheet metal design for light weight and high strength.
- Based on the strength of aluminum parts design and analysis.

Educational Qualifications:

Examination	Discipline/ Specialization	School/college/Place	Board/ University/Place
PhD	Production	JNTUH/ Hyderabad	JNTU
M.Tech	AMS	JNTUH/ Hyderabad	JNTU
B.E	Mechanical	M.V.S.R.Engg College/ Hyderabad	Osmania University
I.P.E	M.P.C	Siddhartha jr college/Guntur	Board Of Intermediate
S. S. C	S.S.C	St.joseph's high school/kothagudem	Board Of Secondary Education

Other certified courses

- Automation in Manufacturing
- BIOMECHANICS OF JOINTS AND ORTHOPAEDIC IMPLANTS
- Manufacturing Processes - Casting and Joining
- The Joy of computing using Python Programming

Patent Awarded

- An image processing system based on IOT for obstacle detection on roads

#### Professional Development Programmes

2005	CATIA & UNIGRAPHICS (Modeling Surfacing, Assembly and Drafting) Part Time
2019	A three day national level workshop on "Teaching, Learning and Evaluation Online with Moodle MOOC Platform & Open Education Resources
2019	Entrepreneurship Awareness camp, Entrepreneurship Development Institute of India under DST- NIMAT 2018-19 , Supported by JNTUH College of Engineering Sultanpur, Sangareddy
2021	"Advances in Composite Materials and their Applications"
2021	Online "Faculty Induction Programme"
2021	FDP ON Automation in Manufacturing
2021	FDP ON BIOMECHANICS OF JOINTS AND ORTHOPAEDIC IMPLANTS
2021	Application of Artificial Intelligence and Machine Learning in Mechanical Engineering (AAIME-2021)
2021	Advances in Thermal engineering
2022	Webinar on "NEP-2020 Implementation Plan: Technology Use and Integration"
2022	Webinar on "NEP-2020: Changing Role of Teachers"
2022	Engineering Drawing Through Autocad
2022	Webinar on "NEP-2020 Implementation Plan: Promotion of Indian Knowledge Systems"
2023	Online "Faculty Induction Programme-14"
2024	Ansys workbench CF

#### Research Papers

- Microstructure And Hardness Evaluation Of Aa7075 And Aa5083 Joint By Friction Stir Welding ||The International journal of analytical and experimental modal analysis||Volume XIV || Issue XI ||November/2022 ||ISSN NO: 0886-9367 ||Page No: 1859-1864
- Fabrication of Self-Charging Electric Bicycle TIJER || ISSN 2349-9249 || © June 2023 Volume 10, Issue 6

- Design, Modelling And Manufacturing Process of Rocket Motor Wing Bracket Fixture. International Journal Of Scientific Research And Education ||Volume||3||Issue||8||Pages-4262-4269||August-2015|| ISSN (e): 2321-7545

## **Two are Under process on Friction Stir welding**

### Computer Skills:

**Mech software's** : CAD, UniGraphics, Catia. Ansys, Solid works. Creo

Languages : C, C & Data Structures Python Programming.

Operating System : Windows 98\XP, DOS. Win7, Win 8, Win 10, Win 11, LineX, Ubuntu.

Other Tools : Ms Office (Excel, PowerPoint and Word)

Hardware skills : Installation of windows, basic troubleshooting of Computer, basic troubleshooting of laptop, soldering, Maintenance of network and software troubleshooting.

### Abilities:

- Solid modeling.
- Scrum master and scrum framework.
- Database management.
- Proficient in drafting.
- CNC machine operation.
- Electric discharge machining operation.
- Lathe machine operation.
- Milling machine operation.
- Drilling machine operation.
- Arc welding machine operation and selection of right size filler materials.
- Spot welding techniques and operation of machines.
- Blow molding die design and Operation of equipment.
- Injection molding Die Design and operation of equipment.
- Casting pattern design through rapid prototyping.

### Key Features

- Working on master model concept
- Workflow Management
- Creating AGILE
- BOM
- TEAM CENTER

### Experience:

Worked as a design Engineer in e-mug technologies, Hyderabad from July 2010 to June 2011. Worked in GOE as a Design Engineer, Hyderabad from June 2008 to July 2011.

Clint Description in E-Mug : B/E Aerospace is the worldwide leading manufacturer of aircraft passenger cabin interior products for the commercial and business jet aircraft markets. B/E Aerospace is also the leading global distributor of aerospace fasteners. B/E Aerospace has leading worldwide

market shares in all of its major product lines and serves virtually all of the world's airlines, aircraft manufacturers and leasing companies through its direct global sales and customer support organizations.

Clint Description in GOE : Group of Engineers (GOE), India's leading CAD/CAM/CAE training and services company, established in 1999 is fast emerging as a thought leader in the industry. The programs at GOE are based on a globally benchmarked, industry relevant curriculum and delivery methodology, reflecting the continuous paradigm changes in the CAD/CAM/CAE industry. This, coupled with our intense industry relationships has culminated in opening up the doors to global career opportunities for our students. The individuals emerge from GOE as ready-to-perform professionals just like the disciples at ancient gurukul graduated as warriors and scholars, ready to deliver.

#### Working as a free Lancer in

1. Trishool Technologies one -stop Engineering and consultancy services provider for engineering Design & development and CNC programming (up to 5 th Axis, turning and turnmill) requirements in the areas like New product development & Design, 3D Parametric Modeling, 3D Scanning, 3D Printing, Reverse Engineering, APPM modeling & detailing, Complete Mould & Die Designs for High pressure die casting, Gravity die casting and Plastics Injection moulds. Wingx swift located within the Hyderabad city in the southern part of India.
2. S&K ENGINEERING. We Are Proud To Introduce Ourselves As One Of The Leading Suppliers Of Sheet Metal Component Empowered With High Professional , Quality Manpower And Supporting Facilities, We At S&k Engineering , Offer Prompt Response And Punctual Delivery For Most Integrated Sheet Metal Components. We Meet Our Customers Desired Quality, Surface Finish And On Time Delivery With Most Advanced Mitsubishi Cnc Laser Cutting Machine And Cnc Press Brake Machine. We Are One Of Few Names Who Constantly Look For Better Methods To Give Our Esteemed Customers The Highest Quality Product At The Lowest Total Cost. Regardless Of The Service We Provide, At S&k Engineering Each Operation Is Supported By A Highly Trained Staff Of Engineers, Laser Technicians, And Quality Control Specialists. We Also Have Our Sales And Engineering Departments Who Continually Update Their Skills And Technical Expertise. We Manufacture & Trade A Wide Range Of Fasteners That Cater To Almost All Requirements Of Industries From Railways, Thermal Stations, Mining, Shipping, Fertilizers, Chemical, Transport, Cement To Building & Construction Industries. All The Fasteners Are As Per IS/BS/DIN/SAE/ASTM/JIS Specifications And In Different Grades. These Fasteners Are Manufactured From Mild Steel, Alloy Steel, Stainless Steel And NonFerrous Metals. Our Special Fasteners Are Tailor Made To Suit Customer Specifications And Drawings

#### Working as an Assistant Professor: in JNTUHUCES:

- A new milestone in the history of Jawaharlal Nehru Technological University Hyderabad is the beginning of another Constituent Engineering College situated at Sultanpur in Medak District from the Academic Year 2012-13.
- Dealing Subjects: Basic Mechanical Engineering for Civil Engineering
  - Kinematics of Machinery
  - Unconventional Machining Process
  - Automobile Engineering
  - Production Technology

CAD/CAM  
Python Programing  
Flexible manufacturing systems  
Metal Cutting  
Fluid mechanics

Extracurricular Activities:

- Organizing various technical events.
- Organizing various cultural events.
- Providing transportation.
- Participation in group discussions, debates and games.

About me:

I have the caliber to take up any given task and complete it in time .I am capable of handling pressure, always like to take on new tasks and challenges, and am self motivated and have a positive attitude towards anything I do. Good time keeper, love to learn new things, quick learner .Discussing the thoughts and applying them for the benefit and growth of the organization .I am a very good team player, last but not least very flexible.

Personal Details:

Date Of Birth : 20-06-1984  
Gender : Male  
Marital Status : Single  
Nationality : Indian  
Languages Known : English, Hindi and Telugu  
Address : H.NO: 5-3

Kothagudem,  
Khammam,  
AP-507101.

Personality Traits : Quick Learner, Adaptable & Task Oriented

Hobbies : playing badminton, cycling, Surfing internet for latest technologies in bikes and cars listening music, playing chess.

Declaration:

I hereby declare that the details furnished by me are true to the best of my knowledge.

Place:

Date: (J Ashok)