

# BASKAR K

Mechanical Engineering Student



+91 75488 23782

baskarankesavan07@gmail.com

 [Baskar Kesavan](#)

 [baskark27](#)

## CAREER OBJECTIVE

To begin my career as a Mechanical Engineer by applying my skills in mechanical design & 3D modeling, thermal & fluid sciences, manufacturing processes, and automotive powertrain systems to develop reliable, sustainable, and innovative engineering solutions, while continuously enhancing my technical expertise and contributing to impactful projects in the engineering industry.

## EDUCATION

AVS College of Technology,  
Salem.

**B.E (Mechanical Engineering)**

CGPA: 8.15 (up to 5th semester)

Government Higher Secondary School,  
Akkur.

**12th Standard**

Percentage: 64.66%

Government Higher Secondary School,  
Akkur.

**10th Standard**

Percentage: 80.6%

## INTERNSHIP

**Voltech Manufacturing Company,  
Irumanthangal.**

August 2024

Learned the fundamentals of transformer and power distribution panel manufacturing, with exposure to fabrication, assembly, material selection, and quality control. I also gained insight into industrial machinery and workflows, bridging mechanical and electrical engineering applications.

**Top Engineers,  
Chennai.**

October 2024

Learned key concepts of battery management, drivetrains, regenerative braking, and energy efficiency in hybrid vehicles, while gaining exposure to EV charging infrastructure and sustainable mobility challenges.

**Bright Brain,  
Salem.**

July 2025

Worked on 3D modeling, surface design, and drafting using CATIA, gaining exposure to real-world product development and assembly design. This improved my problem-solving skills in CAD applications.

## AREA OF SPECIALIZATION

- |  |   |
|--|---|
| <ul style="list-style-type: none"><li>• Design &amp; CAD Modeling</li><li>• Engineering Calculations &amp; Problem Solving</li><li>• Strength of Materials &amp; Structural Analysis</li></ul> | <ul style="list-style-type: none"><li>• Powertrain &amp; Transmission Systems</li><li>• IoT Applications (Arduino, ESP32)</li><li>• Basics of Front-End Development</li></ul> |
|--|---|

## POSITIONS OF RESPONSIBILITY

- Led Junior Red Cross team in school
- Led college symposium "Mechanizers'25" with 50 student participants
- Led Project Team for Sakthi Hackathon 1.0

## PUBLISHED WORK / CONTRIBUTIONS

- Authored and published an article on Wikipedia about my village Madipakkam, showcasing research, documentation, and content development skills.

## TECHNICAL SKILLS

---

- CAD & Design: **CATIA V5, AutoCAD, SolidWorks, Creo Parametric (Basics)**
- Simulation & Analysis: **Finite Element Analysis (FEA)**
- Programming & Tools: **Python, HTML, CSS (Basics)**, Microsoft Office (**Word, Excel, PowerPoint**)

## PROJECTS

---

### 1) 2D CNC Plotter

Developed a compact and cost-effective 2D CNC plotter using Arduino and stepper motors for precise automated drawing, demonstrating practical application of mechatronics and control systems.

### 2) Product Recommendations Using Gen AI

Built an intelligent recommendation system leveraging Generative AI to analyze user preferences and suggest relevant products, showcasing integration of AI in consumer behavior analysis.

### 3) Worker Safety and Health Monitoring System using IoT & Digital Twins (Industry 5.0)

Engineered a real-time Worker Safety Monitoring System using Digital Twin technology and IoT sensors, enabling proactive health tracking and safety alerts in Industry 5.0 environments.

## CAREER ACHIEVEMENTS

---

- 1) Won **1st prize** in a **hackathon** at Government College of Engineering, Salem, organized in 2025 by **Naan Mudhalvan** and **InGage Technologies, Chennai**.
- 2) Won **2nd prize** in a **hackathon** at PSG Institute of Technology and Applied Research (PSG iTech), Coimbatore, organized in 2024 by **Naan Mudhalvan** and **Oracle University**.
- 3) Won **1st prize** in a **Paper Presentation** in 2024 by KSR College of Technology, Erode, in 2024.
- 4) Secured **3rd rank** for Best Academic Performance in the 5th semester.

## PERSONAL DETAILS

---

**Father's Name** : K.Kesavan  
**Mother's Name** : K.Selvi  
**Date of Birth** : 27-05-2005  
**Gender** : Male  
**Blood Group** : B+ve  
**Languages Known** : English, Tamil  
**Soft Skills** : Adaptability, Multitasking, Goal-Oriented, Ambitious, Punctual and Reliable  
**Hobbies** : Playing Chess, Researching Emerging Technologies, Developing IoT / Electronics Projects  
**Address** : No. 15, Bajanai Koil Street, Madipakkam Village, Cheyyar Taluk, Tiruvannamalai District, Tamil Nadu - 631 701.

## DECLARATION

---

I hereby declare that the above information is true and correct to the best of my knowledge and belief.

Place :

Yours sincerely,

Date :

(BASKAR K)