

# E Akash

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## Profile

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I am a mechanical engineer with a Diploma and B-Tech in Mechanical Engineering, currently working as a Design Engineer in a drone manufacturing company. My role involves ideation, designing, system engineering, and the development of flying systems. I have a strong foundation in core engineering principles and am proficient in CAD software, with over 2 years of hands-on experience in 3D printing, including the repair and assembly of 3D printers.

I excel in design for manufacturability, ensuring cost-effective production processes, and possess a track record of innovative design and creative problem-solving. With strong teamwork and communication skills, I contribute effectively to cross-functional teams.

In addition to my professional experience, I am an active member of GrabCAD, where I upload and share 3D models. I am also expanding my expertise by learning basic electronics and coding through personal projects and studying MATLAB to further explore my passion for robotics and automation. My goal is to integrate mechanical engineering with robotics for advanced solutions in technology and manufacturing.

Skilled design engineer with expertise in ideating, designing, simulating, and manufacturing innovative solutions for drones and subsystems. Proficient in CAD tools (NX, SolidWorks, Blender, Fusion 360, Creo, Solid Edge) and experienced in CNC programming, machining, and system integration.

As the sole design engineer in the R&D team, I lead technical processes, solve complex challenges, and collaborate with clients to adapt designs to specific needs. Known for problem-solving, innovation, and delivering impactful results in dynamic environments.

## Work Experience

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present

### Design Engineer

Chennai, India

AERO360 [🔗](#)

*I am currently in my 6th month as an intern at Aero 360, which has been a fantastic opportunity. It allows me to work with cutting-edge technologies and has provided me with invaluable experience.*

2023

### Internship

Kolar, India

BEML KGF

*I attended an internship training program at BEML KGF, a central government company that manufactures heavy equipment such as tanks, dozers, and excavators. This experience provided me with valuable insights into industry operations, standards, and working culture.*

2023

### Internship

Online

Techmaghi

*I completed a one-week internship focused on ECU tuning. This experience was intriguing and provided me with a foundational understanding of ECU tuning basics.*

## Education

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2021 – 2024

### B Tech

Kothamangalam, India

Mar Athanasious College of Engineering, kothamangalam

CGPA - 7.3

2018 – 2021  
Palakkad, India  
**Diploma**  
*St Mary's polytechnic college, palakkad*  
CGPA - 8.71

2016 – 2018  
Irinjalakuda, India  
**Higher secondary**  
*National higher secondary school Irinjalakuda*

## Skills

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**Computer-Aided Design (CAD)** ● ● ● ● ●  
Proficient in creating detailed 3D models and assemblies using advanced design tools such as SolidWorks, Blender, Fusion 360, Creo, and Solid Edge. These tools enable precise parametric modeling and design optimization for complex subsystems like turbines, compressors, and power transmission components.

**Teamwork and Collaboration** ● ● ● ● ●  
*Through my experience working with teams in competitions and on highly challenging projects at my workplace, I have developed strong teamwork and collaboration skills, enabling me to contribute effectively to group efforts and achieve project goals.*


**Manufacturing Knowledge**  
Deep understanding of manufacturing processes, including CNC programming and machining. Able to design components that are manufacturable, cost-effective, and meet high-precision standards.

**Communication Skills** ● ● ● ● ●  
*I possess strong communication skills, enabling me to effectively convey ideas and interact with team members and others, even in high-pressure situations. I am proficient in English and fluent in local languages including Tamil, Malayalam, and Hindi.*

## Projects

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2024/06 – present  
**IOT based Device for Bedridden people**  
*Automation and monitoring of room*  
*This project is designed to assist bedridden individuals during emergencies and facilitate quicker communication with the press of a button. It also includes sensors to monitor the surrounding environment and maintain a comfortable room condition without requiring human intervention. Additionally, it features smart notifications and visual alerts for enhanced functionality.*

2023/09 – 2024/03  
**Hight adjustable landing gear**   
*Uneven Terrain Landing Gear for Multicopter Drones*  
*The project involved developing a height-adjustable landing gear designed to assist with landing on uneven surfaces. I was also able to adjust it live based on information received from sensors. While the project achieved partial success, it was limited by constraints related to time and resources.*

2023/06 – 2023/09  
**Quad copter Drones**  
*A Product quality Drone*  
*I have designed and manufactured a fully functional and robust drone that is both aesthetically pleasing and capable of performing various tasks, such as surveillance. All images and videos of the drone are available on LinkedIn, and all related files can be accessed on GrabCAD.*

## Organizations

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2023 – present  
Ernakulam, India  
**Society of Automotive Engineering**  
*Student Member*  
*During my time in college, I was an active member of SAE and contributed to numerous projects. Notably, I served as the lead designer for a drone in the Aerothon competition and also designed rovers. Additionally, I mentored and guided my juniors in several projects, helping them navigate the design and development process.*

Chennai, India

**Aero360**

*Design engineer*

*As the sole design engineer on my team handling research projects, I am involved in every stage of the process, from ideation and design to problem-solving, assembly, and flying systems. I have experience flying smaller systems and am currently training to operate larger systems, contributing to the complete lifecycle of each project.*