

# Kishore BV

Robotic and Automation Engineer: Catalyst for Innovation and Problem Solver

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## Objective

As an Automation and Robotics Engineering undergraduate student, I am seeking opportunities in a reputable organization to enhance my knowledge and skills, aligning with the dynamic demands of the industry.

## EDUCATION

Amrita Vishwa Vidyapeetham, Coimbatore

B. Tech Automation and Robotics Engineering

Expected June 2025 | Current CGPA:6.6

VAV International School, Udumalpet

High School | 417/500

SVMHSS, Udumalpet

Completed my School (up to 10<sup>th</sup> std) | 421/500

## EXPERIENCE

- **R&D and New Product Development Intern — Garuda Aerospace**  
Dec 2024 – June 2025
  - Supported design and prototyping of drone mechanical components.
  - Assisted in testing and refining product designs, gaining practical exposure to engineering fundamentals.
- **Garuda Aerospace, June 2024 – July 2024:** Assisted in the development and testing of innovative drone technologies, contributing to projects focused on automation, efficiency, and advanced robotics applications.(Projects are mentioned below)
- **Completed Courses:**
  - Completed a Fundamentals of AI & ML Course.
  - Completed a course in actuators and drives.
  - Completed a course in CAD modeling.
- **Received numerous recognitions from college and other institutes.**
- **Achieved Remote Pilot Certification for small class drone with VLOS.**

## SKILLS

CAD Designing  
ML Programing  
Python programing  
Budget Management

## AWARDS

**Mr. BOT (Roborg'22):** Overall title at SKCET, Coimbatore

**Second Position:** Junkyard event at Amrita Vishwa Vidyapeetham, Coimbatore

**First Position:** Inferno'23 (Bionic Brawl) at Amrita Vishwa Vidyapeetham, Coimbatore

**Third Position:** TechFest'23 (Meshmerize) at IIT Bombay

**First Position:** Forsch'23 (Trace it) at Anna University Regional Campus, Coimbatore

## LANGUAGES

Tamil, English

## AREA OF INTEREST

CAD Modeling  
Multi-copters  
Path Tracking Robots  
Mobile Manipulators  
ML Algorithms

## PROJECTS

### Major Projects:

**Lifebuoy Rescue Drone:** Built a drone with a lifebuoy deployment system to improve water rescue operations by delivering lifebuoys accurately.

### Traffic Management System:

**Tethered Drone System:** Designed and developed a tethered drone platform to achieve extended flight endurance and stable real-time data transmission.

**Machine Learning Integration:** Developed a dynamic traffic signal control system using various machine learning models to optimize signal timings based on real-time traffic data. Applied ML algorithms for traffic flow prediction and congestion reduction, improving urban traffic efficiency and minimizing waiting times at intersections.

### Minor Projects:

**Line Following Robot** - A Robot which can trace/follow a line.

**Maze Solving Robot** - A Robot Which can analyze a Maze and find the shortest path.

**Mobile Rover with a manipulator** - To gain real time experience and to participate in Technical Events.

**HYGIEIA** - A Pharmaceutical Drug Delivery Robot.

**Solar Panel Cleaning Drone:** Developed a drone equipped with a high-pressure water Nozzle for automated and efficient cleaning of solar panels.

**Fire Extinguisher Ball Throwing Machine for Drone Attachment:** Created a drone attachment to remotely deploy fire extinguisher balls for enhanced firefighting in difficult areas.

**Multi-Purpose Rover for Agriculture:** Designed a rover to automate agricultural tasks like weeding, seeding, and fertilization using advanced sensors and AI.

**Canister Dropping Mechanism for Drone Attachment:** Developed a mechanism for drones to deliver essential supplies, such as medical kits, to remote or hazardous areas efficiently.

### Academic Projects:

**Spring Mass Damper System** -To find the damping force.

**Analyzing Robotic Arm** -Using ADAMS Software.

**Manufactured a Spanner** -To gain knowledge in the Manufacturing Field.

**Reverse Engineering, Topology Optimization, Parameter Optimization** -To gain knowledge in Additive Manufacturing.

**Testing the physical properties of metals** -To gain knowledge in the Mechanics of materials field.

## EXTRA-CURRICULAR ACTIVITIES

**Head of Public Relations,** Anokha Techfest (2023 & 2024) Led PR efforts, managing media outreach and college advertising for two editions of a major tech festival.

### Member, Debate and Public Speaking

Active in intercollegiate debates, building skills in articulation and persuasion.

### Volunteer, Community Service Initiative

Organized tutoring and food drives for underprivileged communities, fostering teamwork and social responsibility.

## HOBBY

Public Speaking

Community Service

Freelancing