

# Akash K S

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## Career Objective

A passionate and dedicated Electrical and Electronics Engineering student with a strong interest in Embedded Systems and IoT, aiming to apply technical skills and creativity to develop innovative solutions to real world problems. Seeking opportunities to learn, grow, and contribute to impactful engineering projects.

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## Education

### **Bachelor of Engineering – Electrical and Electronics Engineering.**

Vidyavardhaka College of Engineering, Mysore.  
2022 – 2026 | CGPA: 8.89 (until 5<sup>th</sup> semester).

### **2nd PUC – Karnataka state board.**

Sadvidya semi residential, Mysore.  
2020-2022 | 90.3% (Science).

### **10th – CBSE.**

Maharshi Public school, Mysore.  
2020 | 85.6%.

## Projects

### • Clap Switch Circuit.

Tools Used: Basic electronics components (IC 555 timer, mic)

Designed and implemented a circuit that toggles LED using sound (clap) as input. Gained hands-on experience with analog signal detection and basic circuit design.

### • Digital Thermometer Using Arduino Uno.

Tools Used: Arduino Uno, LM35 sensor, LCD display

Built a real-time digital temperature monitoring system. Programmed microcontroller to display temperature data from LM35 sensor on an LCD screen.

### • Automated Guided Vehicle.

## Technical Skills

**Programming:** C, Python.

**Embedded Systems:** Arduino Uno, ESP32.

**Design Tools:** KiCad, AutoCAD, Altium designer.

**Simulation/Analysis:** MATLAB.

## Languages Known

**English**

**Kannada**

**Hindi**

## Hobbies

**Home chores**

**Volleyball**

**Listening to podcasts**

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Tools Used: IR Sensors, Ultrasonic sensor, ESP8266, L298N, buck convertor, MPPT. Developed a monitoring system to track movement and functionality of AGVs. Focused on obstacle detection, route following.

- **Opto-dielectric Properties of Ce<sup>3+</sup>:Si<sub>3</sub>Al<sub>2</sub>Si<sub>3</sub>O<sub>12</sub> Nanocomposites for Energy, Lighting, Anti counterfeiting and Fingerprint Detection Applications. (Oct 2024 - Apr 2025)**

Published Research in Q1 Journal (Journal of Alloys & Compounds).

Title: Opto-dielectric Properties of Ce<sup>3+</sup>:Si<sub>3</sub>Al<sub>2</sub>Si<sub>3</sub>O<sub>12</sub> Nanocomposites for Energy, Lighting, Anti counterfeiting and Fingerprint Detection Applications. Focused on material science innovations for energy-efficient applications.

## **Certifications & Workshops Attended**

- Programming for Everybody (Getting Started with Python) – University of Michigan (Coursera) – Mar 2025.
- Creating EV Charging Hubs: Innovative Design – Coursera – Jan 2025.
- Research Methodologies – Queen Mary University of London (Coursera) – Mar 2025.
- Foundations of Cybersecurity – Google (Coursera) – Jan 2024.
- Connect and Protect: Networks and Network Security – Google (Coursera) – Jun 2024.
- Play It Safe: Manage Security Risks – Google (Coursera) – Feb 2024.
- MATLAB Onramp – MathWorks – Nov 2023.
- Career Essentials in Generative AI – Microsoft & LinkedIn – Apr 2024.
- Energy Literacy Training – Energy Swaraj Foundation – Jun 2024.
- Workshop on Embedded Systems – IISc Bangalore – Dec 2024.
- Space Science and Technology Awareness Training (START) – IIRS, ISRO – Jan 2025.
- AICTE Student Learning Assessment – Electrical & Electronics Engineering – Jul 2024.

## **Achievements & Extra-Curricular Activities**

- Volunteer, Faculty Development Program on Design Thinking for Product Development – VVCE – May 2024.
- Mentor, Build Your Own Robot Workshop – IEEE PES & PELS, VVCE – Jun 2024.
- Participant, Semiconductor Manufacturing Skills Training Workshop – IISc Bangalore – Dec 2024.
- Volunteer, State-Level Hackathon on Smart Campus Solutions – VVCE, Mysuru – Nov 2024.
- Volunteer, Chiguru 2025 (Kids Carnival) – Youth for Seva – Feb 2025.
- Mentor, Robotics and Embedded Systems Workshop – IEEE PELS, SPARC, VVCE – Feb 2025.
- Completed, Skill Development Program on C & Python Competitive Training – Mar 2025.
- Workshop Speaker, Career Guidance at Ananthageetha Vidyalaya – Aug 2023.