

# Khushi Hosamani

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## SUMMARY

Electronics and Communication Engineering student (Expected 2026) skilled in both hardware and software development. Hands-on experience in full-stack applications, embedded systems, and AI-powered projects, with a passion for bridging electronics and intelligent software solutions.

## TECHNICAL SKILLS

**Core ECE Skills:** Embedded Systems, IoT, Digital Image Processing, Microcontrollers (Arduino, Raspberry Pi), PCB Design, MATLAB, Verilog, Signal Processing

**Software & AI:** C, C++, Java, Python, JavaScript; React.js, Node.js, Express.js, MongoDB, MySQL, Firebase; Google Gemini API, TensorFlow, OpenCV

**Tools:** Git/GitHub, VS Code, Linux

## EXPERIENCE

### C++ Programming Intern

May 2023 – June 2023

*InterPe (Remote)*

- Built a Connect Four Game using C++ with 2D arrays and turn-based logic.
- Strengthened skills in input validation, console interaction, and basic game design.

## PROJECTS

### Furniture Website | HTML5, CSS3, JavaScript

2025

- Developed responsive e-commerce site with product categories, filters, and cart system.
- Boosted user conversions by 20%.

### KisanAI — Smart Farming Assistant | Google AI, Firebase

2025

- AI-powered assistant for farmers providing crop advice, weather forecasts, and scheme info.

### Human Following Robot | Raspberry Pi, OpenCV

2025

- Built vision-based robot to follow humans in real-time using sensors and image processing.

### Traffic Monitoring System | IoT, Embedded Systems

2024

- Implemented real-time monitoring with sensors and controllers.
- Optimized traffic signal timing, reducing wait time by 15%.

## EDUCATION

### Kalpataru Institute of Technology, Tiptur

2022 – 2026

*B.E. Electronics and Communication Engineering*

### KLE Society's Gudleppa Hallikeri College, Haveri

2020 – 2022

*Pre-University Education (PUC)*

### Lions School, Bankapur

2020

*Secondary School Leaving Certificate (SSLC)*

## CERTIFICATIONS

Google Cloud: Introduction to Generative AI

Google Cloud: Responsible AI

HackerRank Java (Basic) Certificate

## ACHIEVEMENTS

Participated in national-level hackathons; developed AI and blockchain prototypes under tight deadlines.