

# PRATHAMESH SALUNKHE

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## SUMMARY

Dedicated Electronics and Communication Engineer with a strong foundation in Embedded Systems, proficient in **C, Embedded C, and Linux OS**. Currently expanding expertise in **ARM and core embedded systems**. Passionate about designing innovative embedded solutions and optimizing firmware performance.

## EDUCATION

- **DKTE'S TEXTILE AND ENGINEERING INSTITUTE, ICHALKARANJI**  
B.Tech in Electronics and Telecommunication Engineering | June 2020 – May 2024
- **PRAKASH PUBLIC SCHOOL**  
Higher Secondary Certificate (HSC) | June 2019 – May 2020  
Secondary School Certificate (SSC) | June 2017 – May 2018

## SKILL

- **Programming Languages:** C, C++, Embedded C, Linux OS.
- **Communication Protocols:** UART, SPI, I2C, CAN.
- **Tools:** GCC Compiler, Vi Editor, GDB Debugger, Linux, github, Keil uVision, Flash Magic, Proteus.
- **Core Skills:** Firmware Development, Debugging, Embedded Systems Design, ARM Architecture.
- **Microcontroller:** LPC2129, LPC2148.

## WORK EXPERIENCE AND INTERNSHIP

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|------------------------------------------------------------------------|--------------------|
| Student Intern   Vector India Pvt. Ltd.   Bangalore.                   | Jan 2025-Present   |
| Graduate Trainee Engineer   Accutech Power Solutions Pvt LTD   Mumbai. | Jul 2024 -Sep 2024 |

## PROJECTS

**CAN Dashboard System (LPC2129, Embedded C):** Developed a two-node CAN-based dashboard using LPC2129 to transmit real-time speed, temperature, and voltage data via CAN protocol.

**Crash Detection System:** Developed an embedded system for real-time crash detection using sensors and GPS, enabling instant emergency alerts to improve road safety by 70%.

**Tea Vending Machine:** Designed and implemented an automated tea vending machine using microcontrollers, improving efficiency by 70% and reducing wastage by 80%.

**Home Automation System:** Created a smart home system with IoT integration, allowing remote control of appliances and security monitoring.

## ADDITIONAL

**Languages:** English, Hindi, Marathi.

**Certifications & Training:** MATLAB Onramp (MATHWORKS), Super way to learn Arduino (Udemy)

**Achievement:** Second place in Idea Competition (COMSA)