Karan Palaniya

- **Bhavnagar,Gujrat, India**

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Objective

"To secure the Junior Embedded Engineer position at Bonrix Embedded Innovations, leveraging a passion for bridging hardware and software. Committed to utilizing strong analytical skills in debugging and PCB design to build efficient IoT and Embedded AI/ML products."

Skills

- **Core EC Skills:** Microcontrollers (ESP32, Arduino, ARM Cortex), Sensor Integration, Communication Protocols (Bluetooth, Wi-Fi, USB), PCB Design, Circuit Analysis

- **Programming:** C , Embedded C
- **Tools & Technologies:** Visual Studio Code, Arduino IDE, Altium
- **Soft Skills:** Problem Solving, Adaptability, Teamwork, Communication, Time Management
- **Lab & Hardware Skills:** Testing, Circuit Simulation, Soldering Iron

Education

College   Ongoing (expected 2026)
- B.E. in Electronics and Communication,
  Government Engineering College, Bhavnagar
  CGPA : 7.28 (6 Semester)

HSC   2022
- Swaminarayan Gurukul , Bhavnagar

Percentage : 58.15%

SSC   2020
- Swaminarayan Gurukul , Bhavnagar
  Percentage : 74%

Projects

Smart Door Lock System
- Designed and implemented an IoT-based smart door lock using Arduino and sensors.
- Enabled secure access via password entry, RFID, and mobile NFC technology.

IoT-Based Smart Shopping Trolley
- Designed and prototyped an embedded system using an Arduino microcontroller to create a smart, automated trolley
- Developed a motor control system using an Arduino to manage speed and direction.
- Successfully integrated multiple sensors and motor drivers to create a functional closed-loop control system.

Language
- Hindi
- Gujarati
- English (basic)