

# Bhoomi Jayani

Electronics and Communication Engineering Student

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## **Career Objective:**

Electronics and Communication Engineering undergraduate seeking a technical internship to gain hands-on industry experience. Interested in electronics and embedded systems, with practical exposure to Arduino-based projects and a strong willingness to learn and contribute.

## **Education:**

**Bachelor of Engineering (B.E.)** – Electronics & Communication Engineering  
Government engineering College Bhavnagar - (GTU) (2026) | CGPA:6.76

**HSC:** Aspire Public School, Surat (2021) | 70.30%

**SSC:** Shree Gayatri Vidhyalay, Amreli (2019) | 69.50%

## **Technical Skills:**

- **Core Electronics:** Basic electronics fundamentals, electronic components, Ohm's Law, KCL, KVL (conceptual understanding).
- **Embedded & Microcontrollers:** Arduino Uno basics, digital I/O, basic sensor interfacing, understanding of microcontroller based systems.
- **PCB & Hardware Basics:** Basic schematic understanding, learning PCB design fundamentals (single layer concepts), awareness of power supply basics (5V regulators conceptual).
- **Tools:** Arduino IDE, EasyEDA (learning schematic & basic PCB layout).
- **Soft skills:** Communication, Time Management, Team Work.

## **Project:**

### **Smart Car Parking System:**

- Developed an Arduino Uno based smart parking system using IR sensors, servo motor, and 16×2 LCD display.
- Automated vehicle entry control based on real-time parking slot availability.
- Displayed EMPTY/FULL parking status on LCD.

### **Home Automation System:**

- Developed a Bluetooth based home automation system using Arduino Uno, HC-05 Bluetooth module, and relay module.
- Controlled home appliances (bulb, fan, etc.) wirelessly through a mobile application.
- Implemented relay switching logic for safe control of high-voltage devices.

## **Languages:**

English | Hindi | Gujarati