

Dhaval Jitendrabhai Prajapati

Wembley, London, HA0 2TG

 +44 7774 742608

 dhavaljp.93@gmail.com

Professional Summary

Full-Stack Developer transitioning from a strong Electronics Engineering background with 4+ years of experience in hardware design, embedded systems, and technical problemsolving. Delivered 50+ hardware prototypes, optimized PCB layouts, and programmed embedded systems during engineering career . Now focused on building responsive, user-friendly applications and strengthening full-stack development capabilities through real projects.

Key Skills

- Designed and developed 50+ circuit boards for industrial applications
- Programmed and debugged over 20 embedded systems (AVR, 8051, Raspberry Pi)
- Hands-on with UART, SPI, I2C, RS485 communication protocols
- Experienced in BOM generation, vendor negotiation, and supply chain support

Work Experience

Design Engineer

Jetpace Technologies, India

2019 – 2023

- Designed 50+ custom PCBs for process automation and pharma equipment, increasing client product efficiency by 25%.
- Developed and simulated circuits, reducing prototyping errors by 40%.
- Programmed microcontrollers (AVR, Arduino, 8051) and ICs for embedded systems used in industrial monitoring.
- Collaborated with cross-functional teams to deliver 10+ client projects on schedule.

Coding Traineeship – Full-Stack Developer (IT Career Switch, UK)

(2025-2026)

Completed a comprehensive full-stack development traineeship focused on modern web technologies, backend programming, database systems, and API-driven applications. Demonstrated proficiency through hands-on projects built to professional specifications.

Technical Skills Demonstrated

- HTML5, CSS3, JavaScript, Bootstrap, jQuery
- PHP, Node.js, REST APIs, AJAX
- MySQL, PostgreSQL
- Python, C#, Java
- Git, GitHub, VS Code

Development Experience

Project #1: Interactive Gazetteer Web Application

Developed a map-based information system using Leaflet, JavaScript, PHP, and PostgreSQL. Implemented dynamic modules including Weather, Currency Converter, and Wikipedia search. Integrated external APIs (OpenWeather, GeoNames) and built responsive UI components following mobile-first principles.

Project #2: Company Directory System

Built a CRUD-based personnel management system using PHP and MySQL. Prepared user requirement documentation, designed database schema, and implemented secure data operations. Ensured error-free functionality through structured testing and validation.

Education

MSc in Electronics Engineering

University of Bedfordshire, Luton, UK

2023 – 2024

Project: Automated Indoor Plant Care Using IoT and Microcontroller

Developed an intelligent system using sensors and IoT for real-time monitoring of plant health, improving water use efficiency by 35%.

BEng in Electronics Engineering

Birla Vishwakarma Mahavidyalaya, India

2015 – 2018

Project: Arduino-Based Cleaning Robot

Built a low-cost, wireless-controlled robotic vacuum cleaner capable of navigating small spaces using ultrasonic sensors.