Zaid Fahad

Research & Design Engineer | Embedded Systems & Full-Stack Developer
Specializing in Web Apps, Linux, IoT Architecture
and Enterprise Kiosk Ecosystems.

Contact Info:

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PROFESSIONAL EXPERIENCE

Research & Design Engineer | JaduPC

SEP 2024 – PRESENT

Automotive Embedded Systems:

Engineered high-fidelity digital instrument clusters for **Automotive Grade Linux (AGL)** using Embedded Flutter. Conducted architectural research on next-gen infotainment system fluidity and real-time vehicle CAN bus data visualization.

Enterprise Kiosk Ecosystems:

- **Autonomous Retail:** Architected a high-throughput **Self-Checkout App** with secure payment hooks and synchronized barcode processing.
- **Hospitality & Healthcare:** Developed end-to-end **Food Ordering Systems** (thermal printing/kitchen sync) and **Healthcare Kiosks** for automated appointments and medical report retrieval.
- **Biometric eKYC:** Launched a Flutter-based identity verification system utilizing dual-camera facial recognition and automated OCR for real-time document processing.

Systems Engineering & IoT:

- Authored a **low-level Linux Daemon in C** to manage data persistence between MQTT publishers and remote databases.
- Integrated **vehicle telemetry IoT devices** into an MQTT broker for real-time diagnostics and fleet analytics.

Productivity & Internal Tools:

Developed a **Remote Device Support Frontend** (Flutter) for internal operations and a custom **Automated Desktop Utility** for workflow optimization.

WordPress Developer | Design & Beyond

JULY 2022 – DEC 2023

Athnic World: Spearheaded the digital transformation from Figma prototypes to a live WooCommerce site with complex service-booking logic.

Cassbeenlashed: Orchestrated a hybrid E-commerce and LMS platform with integrated Squarespace Appointment workflows.

Project Coordinator & Web Developer | Onirban Bangladesh

DEC 2021 – MAY 2022

Charity Infrastructure: Coordinated the development of a 30-page international portal for **Penny Appeal AU**, implementing high-security donation funnels and dynamic event management.

Retail Prototyping: Transformed legacy PSD designs into high-performance organic retail stores using advanced WordPress frameworks and WooCommerce.

TECHNICAL SKILLS

Embedded & Systems:
Automotive Grade Linux (AGL), Linux Daemon Engineering (C), MQTT, IoT Telemetry, Microcontrollers.

Software Development:
Flutter (Embedded/Mobile/Web), Python (FastAPI), C, JavaScript, PHP, Next.js, GTK.

Automation & Web:
React, WordPress, WooCommerce, Elementor Pro, PWA, Shell Scripting.

Design & Identity:
UI/UX , Figma, Adobe Creative Suite, Brand Guidelines.

Event Management

AWARDS

Top Position: ITEE (IP) 2019 by ITPEC, Japan, and BCC, Bangladesh.

PERSONAL

Languages:
Bangla (Native), English (Fluent), Hindi (Conversational).

Hobbies:
Digital Photography, Culinary Arts, Acoustic Guitar.

EDUCATION

Undergrad, CSE, IUB (Ongoing)

ITEE(FE), ITPEC, Japan (Oct 2024)
ITEE(IP), ITPEC, Japan (Oct 2019)

GCE IAL (May 2023) &
IGCSE (May 2022),
British Council, Dhaka

IUB NEST | Product Lead

JUNE 2025

Directed the full-lifecycle development of a campus utility ecosystem.

Impact: Scaled the platform to **4,000+ total users** with **1,500+ daily active users**.

Features: Integrated routine viewers, faculty directories, CGPA calculators, and a course planning engine.

FalcryX Drone Telemetry | IoT Lead

JAN 2026

Real-time Systems: Engineered a **low-latency, event-driven telemetry architecture** using MAVLink and FastAPI, featuring real-time fail-safe monitoring for UAV operations.

Volunteer Management Portal | Independent University

DEC 2025

Lead Developer: Architected the official **Progressive Web App (PWA)** for the Events Tracking and Verification System. Managed the transition from Google sheets to a scalable platform for university volunteer coordination.

Event & Certificate Verification Portal | Independent University

OCT 2025

Built a secure platform for digitizing university event lifecycle workflow , featuring **fraud-proof certificate generation** using QR codes for instant academic verification.

E-Commerce & Accounting | Zhinuk Fashion

JUNE 2020

Built a comprehensive WooCommerce site integrated with an **Open Source Accounting PHP Script** for streamlined business management.

School Automation | National Ideal School

DEC 2019

Developed a dynamic administrative website handling admissions and event notices using custom post types and advanced meta-fields.