AHFAN NAOFAL

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Portfolio: https://portofolio-ahfandes-projects.vercel.app/

PROFILE

Final-year Electrical Engineering student with a strong interest in system development and information technology. Experienced in web application development, IoT integration, and web-based data management. Familiar with various development tools and able to learn new technologies quickly. Possesses strong analytical thinking, problem-solving, and communication skills, and is eager to contribute and grow in a professional work environment.

EDUCATION

Bachelor of Electrical Engineering, Universitas Islam Kadiri

- 2022 – 2026 | GPA: 3.73/4.00
- Concentration: Industrial Electronics

TECHNICAL SKILLS

- Web Development : HTML, CSS, JavaScript, React.js, Next.js, Tailwind CSS, Bootstrap
- Backend & API : Node.js, Express.js, Firebase
- Tools & Version Control : Git, GitHub, VS Code
- UI/UX & Prototyping : Figma, Canva, Responsive Design
- IoT & Embedded Integration : Arduino IDE, Firebase Realtime Database
- Office & Documentation : Microsoft Office (Word, Excel, PowerPoint)

EXPERIENCE

- Fullstack Web Developer - IoT Application (Smart Venturi)
  - ✓ Developed an IoT-based web application to control the Smart Venturi system manually and automatically based on user-defined schedules.
  - ✓ Utilized Firebase Realtime Database as a communication protocol between the web application and IoT devices.
  - ✓ Built a responsive and user-friendly interface to enable easy configuration and monitoring via mobile devices.
- Backend Developer - Smart Attendance System
  - ✓ Developed an RFID-based attendance system with real-time monitoring through a web application.
  - ✓ Implemented backend services using Express.js and integrated Google Spreadsheet as the database to simplify attendance data recap for academic staff.
  - ✓ Built features for check-in/check-out scheduling and RFID card registration directly from the web application.
- Embedded System Developer - Fuzzy Logic Incubator

- ✓ Designed an automatic temperature control system using fuzzy logic to maintain the incubator temperature at 38°C.
- ✓ Implemented the system using Arduino Uno, DHT22 temperature and humidity sensor, and nickel wire as the heating element.
- ✓ Optimized the defuzzification method to achieve more precise temperature control and system response.
- UI/UX Design & Implementation
  - ✓ Designed modern and user-friendly UI prototypes for IoT applications and webApps using Figma.
  - ✓ Created wireframes and mockups based on user requirement analysis and implemented the designs into responsive website/webApp interfaces to improve user experience (UX).