

Tejindra Rai

IoT Developer & UI/UX Designer

Kapan, Kathmandu, Nepal | tejindrarai100@gmail.com | Portfolio Available

Professional Summary

Innovative IoT Developer and UI/UX Designer with expertise in smart automation systems and user-centered design. Passionate about creating intelligent solutions that bridge the gap between technology and user experience. Experienced in circuit simulation, embedded systems, and modern design principles.

Featured Projects

IoT Smart Pad Vending Machine

Developed an intelligent vending machine system for feminine hygiene products with IoT integration. Features automated dispensing, inventory management, and remote monitoring capabilities for enhanced accessibility and convenience.

Arduino IoT Sensors WiFi Module Mobile App Cloud Integration

Smart Window System (Tinkercad)

Designed and simulated an automated window control system using environmental sensors. The system intelligently adjusts window position based on weather conditions, temperature, and air quality for optimal indoor environment.

Tinkercad Arduino Simulation Environmental Sensors Servo Motors Automation Logic

UI/UX Design Portfolio

Created user-centered design solutions for mobile applications and web platforms. Focus on intuitive interfaces, accessibility, and modern design trends to enhance user engagement and satisfaction.

Figma Adobe XD Prototyping User Research Responsive Design

Technical Skills

IoT & Hardware

Arduino Raspberry Pi ESP32/ESP8266 Sensors Integration Circuit Design

Programming

C/C++ Python JavaScript HTML/CSS Mobile Development

Design Tools

Figma Adobe Creative Suite Sketch InVision Tinkercad

Specializations

User Experience Design Smart Automation IoT Architecture Prototyping System Integration

Key Achievements

- Successfully developed and prototyped IoT-based smart vending solution addressing real-world accessibility challenges
- Created innovative smart window automation system with environmental responsiveness
- Demonstrated expertise in both hardware development and user interface design
- Proficient in circuit simulation and embedded systems programming
- Strong understanding of user-centered design principles and modern UI/UX trends
- Experience with cloud integration and mobile app development for IoT systems

Areas of Expertise

Smart Automation Systems

Designing and implementing intelligent automation solutions for everyday problems, with focus on user accessibility and environmental responsiveness.

IoT Development

End-to-end development of Internet of Things solutions, from sensor integration to cloud connectivity and mobile app interfaces.

UI/UX Design

Creating intuitive and engaging user interfaces with strong focus on user experience, accessibility, and modern design principles.