

WASIF SABOOR

Electrical Engineer | PCB Design Engineer

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PROFILE

Electrical Engineer with 1.5+ years of hands-on experience in PCB design and embedded hardware development, specializing in reliable PCB solutions for embedded systems, industrial electronics, and power electronics. Experienced in schematic capture, 2/4/6-layer PCB layout, footprint and library development, power supply PCB design, hardware validation, prototyping, testing, and troubleshooting using Altium Designer.

TECHNICAL EXPERTISE

PCB Layout Design (2, 4 & 6 Layers) • Schematic Capture • Multilayer PCB Design • Footprint & Library Development • Power Supply PCB Design • Component Placement & Routing • Signal & Power Integrity • DRC & Gerber Generation • Embedded Hardware Integration • Electronics Testing & Troubleshooting • Hardware Validation

TOOLS & EMBEDDED HARDWARE

Altium Designer • EasyEDA • Proteus • MATLAB/Simulink • Arduino IDE • Arduino • ESP32 • UART • I²C • SPI • Sensor Integration

PROFESSIONAL EXPERIENCE

PCB Designer - PEC GET Program, National Electronics Complex of Pakistan (NECOP)

Jan 2026 - Present

Designing 4-layer and 6-layer PCBs in Altium Designer; developing schematics and PCB layouts for the 1553 Evaluation Board, ADC Development Board, and Upconversion PSU Power Board; creating custom footprints and schematic symbols; optimizing power distribution, grounding and signal routing; generating DRC and Gerber manufacturing outputs; supporting hardware integration and validation.

Product Development Engineer - Comcept Private Limited

Feb 2025 - Jan 2026

Designed 2-layer dispenser control PCBs, a 100W (48V) LED Search Light PCB, Solar LED Street Light PCBs and AGS Display System PCB; performed schematic capture, routing, hardware debugging, PCB testing and validation; supported prototype development and technical evaluation of AC & DC EV charging stations.

SELECTED PCB PROJECTS

Single Dispenser PCB: ESP32 + Arduino Nano, RS485, RTC DS3231, SD-card logging and embedded control interfaces.

Multi Dispenser PCB: 91 mm × 110 mm double-layer Arduino Mega 2560 + ESP32 design with RTC, SD Card and RS485.

48V LED Search Light: High-power single-layer PCB with 112 LEDs and thermal/high-current routing considerations.

ADC Development Board: Precision analog-to-digital platform with regulated rails, signal conditioning and 16-bit SAR ADC.

Solar PCB (5P8S): 40-LED single-layer solar lighting PCB.

Fuel Display Card: 2-layer ESP32 display controller with power regulation, relay drive and ambient-light sensing.

AGS Display Board: MAX7219, 8-digit 7-segment display, manual control and 220V AC indication.