

# Sameer Khan

Electrical Engineer

+92 3197101673

@ sameerkhanswati001@gmail.com

Mansehra ,Kpk pakistan

## SUMMARY

Electrical Engineering student with hands-on experience in digital circuit design and implementation. Developed a water level indicator using Arduino and ultrasonic sensors for accurate monitoring, alongside a 16-bit up and down counter using digital logic design principles. Skilled in programming (C/C++), project management, and documentation. Seeking internship opportunities to apply technical expertise in a dynamic engineering environment.

## EDUCATION

Bachelor in Electrical Engineering  
University of Engineering and Technology Peshawar  
10/2022 - 07/2026 peshawar ,Kpk Pakistan GPA 3.46 / 4.0

Intermediate Education  
Light Tower Public School and College Mansehra,Kpk Pakistan  
04/2020 - 04/2022 Location GPA 3.6 / 4.0

## PROJECTS

Calculator Implementation on 8051 Microcontroller  
04/2024 - 06/2024

- Implemented a calculator on 8051 microcontroller using Proteus for simulation and Keil uVision for coding.
- Integrated keypad input and LCD display for user interaction and feedback.
- Implemented arithmetic operations including addition, subtraction, multiplication, and division.
- Managed error conditions such as division by zero and overflow through robust error handling.
- Demonstrated proficiency in embedded systems design, C programming for microcontrollers, and hardware-software integration.

16-Bit Up and Down Counter  
01/2023 - 02/2024

- Designed a 16-bit up and down counter using digital logic design principles.
- Implemented the counter using flip-flops, logic gates, and counters on a breadboard or using simulation software (specify if applicable).
- Programmed the counter behavior in VHDL/Verilog or implemented it using discrete logic components.
- Validated functionality through simulation and hardware testing, ensuring accurate counting in both up and down modes.
- Documented the project including design specifications, circuit diagrams, and test results for comprehensive understanding and future reference.

Float Level Indicator  
11/2023 - 01/2024

- Designed and assembled an electronic water level indicator system using Arduino microcontroller.
- Integrated ultrasonic sensors for accurate real-time measurement of water levels in a tank.
- Programmed Arduino in C/C++ to process sensor data and display water levels using LEDs.
- Conducted thorough testing and calibration to ensure reliability and accuracy across various water levels.
- Documented project specifications, circuit diagrams, and test results for future reference and presentation.

## REFERENCES

Will be provided on Demand

## SKILLS

MATLABIslamic StudiesC++

AutoCADAltium designerPspice

ProteusKeilCommunication

Embedded Systems Development

TeamworkEnglishElectric Circuits

Circuit AnalysisCritical Thinking

Analytical Thinking and Problem Solving

Quality ControlSafety Procedure

## STRENGTHS

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**Problem Solving**  
Applied analytical problem-solving skills to design and optimize electronic systems, ensuring functionality and efficiency in projects like a water level indicator and a 16-bit up/down counter.

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**Project Management**  
Successfully planned and executed projects in digital circuit design, including the development of a water level indicator and a 16-bit up/down counter. Demonstrated proficiency in organizing tasks, coordinating team efforts, and meeting project milestones effectively.

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**Innovation**  
Utilized creative problem-solving to pioneer advancements in digital circuit design, exemplified by projects like a water level indicator and a 16-bit up/down counter.

## LANGUAGES

English  
Proficient

Urdu  
Native

Hindko  
Native

Punjabi  
Advanced

Pashto  
Intermediate