Syed Muhammad Huzaifa

Intern - **PATEX**
B.E Industrial Electronics
NED University

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Profile Summary

Motivated engineering with a degree in knack for innovation and problem-solving. Strong academic background in Industrial Electronics, backed by hands-on experience. Quick learner, effective communicator, and deadline-driven achiever. Seeking roles to contribute to forward thinking engineering projects.

Education

* **NED UET, Karachi** **CGPA 2.98** (5th rank)
  - B.E Industrial Electronics
* **High School Certificate (BIEK)** **76%**
  - Govt. College For Men Nazimabad
* **Secondary School Certificate (BSEK)** **80%**
  - Falcon House Grammar School

Experience

- **Pakitex Boards (Pvt) Ltd. (*Intern*)** *02-Apr-24 – 11-May-24*
  Engaged in research focused on optimizing one of their machine.
- **SAF International. (*Intern*)** *06-Nov-23 – 27-Nov-23*
  Involvement in various aspects of day to day operations.
- **AutoCon. (*Trainee*)** *06-Feb-23 – 10-Jun-23*
  Work with instrumentation sensors, control values, and different PLC wiring and execution.

Projects

- **Design & Installation of real time thickness profiling system for Plywood** **2024**
  Developed a system for measuring plywood thickness for Pakitex based on laser triangulation method.

  Tools and techniques used: SCADA, PLC, Laser Triangulation
- **Function Generator** **2023**
  Designed and built a function generator capable of producing sine, square, and triangular waveforms using the 741 operational amplifier.

  Tools and techniques used: Oscilloscope for waveform verification, and Breadboard for circuit prototyping
- **Clock** **……..2022**
  Designed and simulated a basic clock circuit using the 74LS IC.

  Tools and techniques used: Proteus
- **Single Side Band modular** **2021**
  Designed a Single Side Band (SSB) modulator to efficiently transmit amplitude-modulated signals with reduced bandwidth and minimized power consumption.

  Tools and techniques used: Signal Generator, Mixer, Circuit, Filters, and Frequency modulation.

Skills

Language	English (Intermediate), Urdu (Proficient), Chinese (HSK II)
Development Environments	TIA Portal. SIMATIC Step 7, Arduino IDE
Modeling Tools	MATLAB/Simulink. Proteus, NI Multisim, NI LabView, WPLsoft, Relenice4 (SCADA), WinCC flexible 2008
Documentation Tools	Microsoft Office (Word, Excel and PowerPoint)

References

References are available upon request.