# Tajdar Tehseen

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## Objective

My objective is to gain work experience in my field with Expertise. My goal is to stay adaptable in changing circumstances and continuously learn new skills that will help me stay relevant and competitive in my field. I will seek out opportunities to take on new challenges and want to stay up to date with the latest trends and development. I am a hard-working person when I decided on something then I end up with the best solution.

## Education

**Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI)** — Topi, PK
Bachelor of Science in Electrical Engineering(Power) — 2020 - 2024

**The Citizens Foundation College (TCF)** — Karachi, Pakistan
Intermediate in Pre-Engineering — 2018 - 2020

## Work Experience

**Society of Photo-Optical Instrumentation Engineering** — Topi, Pakistan — 2021 - 2024

SPIE is one of the leading societies of GIK Institute, which annually organizes its All-Pakistan events such as Photonics Optica. Where I lead the content writing work with my team members. SPIE also organizes International conferences on advanced Emerging Solar Cells Technologies, Photonics, Multidisciplinary Science and Engineering, Undergraduate Research, and Photonics Exhibition, for this, I worked with my sponsorship team where I was leading sponsorship meetings with well-known companies in Pakistan to sponsor our event in return of some incentives, and finally, I approach Nestle sponsors they set up there stall 3 days of the event and distribute Nescafe coffee cup among students and all people in GIKI

## Academic Projects

**Car Parking System**
In this project used Arduino UNO an ultrasonic sensor and a 5volt buzzer. The software used LabView.

**Digital Clock with an Alarm System**
In this using the PIC184550 microcontroller system and 7-segment Display and programming on MP-LAB and simulation on proteus.

**Voltage Level Detector**
In this project used a potentiometer, diode, and different LEDs. Potentiometer work as detecting voltage level.

**Automatic Night Light**
In this project used a 9-volt battery and photoresistor that is actually light-sensitive material.

**Feasibility Report**
Enhancement of Security System at Ghulam Ishak Khan Institute.

**Designing of LiFi Transceiver**
The aim of this Complex Engineering problem(CEP) is to design and develop of LiFi Transceiver system using MATLAB and the mobile phone application Phyphox.

**Single Phase Transformer**
The objective of this Complex Engineering problem(CEP) is to design a single-phase transformer of 85VA.

**Voltage Regulation Using Shunt Capacitor**
The aim of this CEP is to design a control mechanism for the voltage regulation of short transmission lines at that given loads and to generate the error signal in MATLAB Simulink.

**Synchronization Of Power**
The aim of this project is to design a Synchronization System of Power generated by solar energy with a grid in MATLAB Simulink.

**Auxiliary transmitted audio recording signals**
The aim of this project was to compare different modems and investigate spectral efficiency, power, noise, characteristics and channel variations by using MATLAB.

**Dc- Dc Boost Converter**
The main object of this project is to make a Dc-Dc Boost converter by STM32 Microcontroller Board. Generated PWM by using CubeMx Software on STM32 board.

**Servo Mechanism**
analysis of the computation of the transfer function between the angular speed of the motor and applied voltage.

## Awards & Achievements

- Graphics Designing By Brain(Virtually)
- The Fundamental of Digital Marketing by Google Digital Garage
- HR Insight at IBA(3 Days session)

## Skills

- Word, Excel(Basic), PowerPoint, Proteus, LT-Spice, Altium Designer(Basics), LabVIEW, PSIM, MultiSim
- MP-Lab(Basic), ModelSim(VERILOG), MATLAB with Simulink
- C++ programing on Dev++ and VisualStudio (Basic), CubeMx Software
- 3D Simulation on CREO CAD
- Teamwork, Time Management, Public Speaking, Problem Solver