

# ABDUL HAADI TAUFIQ SHAIKH

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## OBJECTIVE

*"Aspiring Electronics & Telecommunication Engineering student with a strong foundation in analytical, problem-solving, and communication skills. Seeking opportunities to apply my technical knowledge and skills in a dynamic and growth-oriented environment."*



## EDUCATION

### Diploma In Electronics and Telecommunication Engineering - Final Year |

St. Xavier's Technical Institute

SEPTEMBER 2022 – PRESENT

SECURED – **90.67%** IN 4TH SEMESTER

### Secondary School Certificate |

Millat High School

JUNE 2021 - MARCH 2022

SECURED – **70.60%**



## TECHNICAL SKILLS

- Web Development & Networking:  
Basic knowledge of website development, computer networking, and LAN setup
- Programming Languages: Python, HTML
- Circuit Building, IOT
- Software Tools:  
Cisco Packet Tracer, MATLAB, Multisim, Microsoft Word, PowerPoint
- Typing, Internet Browsing
- Calligraphy (English, Urdu, Arabic)



## PROJECTS

- **Smart Attendance System/Device (Prototype)**  
The smart attendance device consists of two main components: a fingerprint module for biometric identification and an ESP32 microcontroller for processing and communication. It is compact and portable, meaning it can be carried and used in different locations (classrooms, conference rooms, etc.), unlike fixed-point attendance systems.
  - **Fingerprint Recognition:** Ensures accurate and authentic attendance tracking.
  - **Web-Based Configuration:** Allows easy remote management through a website.
  - **User-Friendly:** Simple to set up and operate for administrators.
  - **Cost-Effective:** An affordable solution for reliable attendance management.
- **Optical Wireless Communication System**  
The optical wireless communication system using laser light, a solar cell, and a PAM circuit offers high-speed data transmission with low interference and enhanced security due to its line-of-sight nature. It is energy-efficient, utilizing a solar cell to convert optical signals into electrical signals, reducing power needs. The use of a PAM circuit allows for effective modulation and demodulation of data, ensuring efficient communication.
  - **Laser Transmission:** Data sent via laser over free space.
  - **Solar Cell Receiver:** Converts optical signals to electrical.
  - **PAM Circuit:** Efficient signal modulation and demodulation.
  - **Line-of-Sight:** Direct path required, minimizing interference.
  - **Adaptable:** Suitable for various communication applications.

- **Automatic Plant Irrigation System**

An automated irrigation system works by using a soil moisture sensor to detect soil moisture levels. When the soil is dry, the comparator compares the sensor's signal to a preset value. If moisture is low, the IC 555 triggers the relay, which switches on the water pump. The system uses a switch for manual control, an LED for indication, and is powered by a 9V DC power supply. Components like resistors and wires connect to the system, ensuring smooth operation.

- **Automatic Watering:** Waters the plants only when soil moisture drops below a set threshold, conserving water.
- **Manual Override:** The switch allows for manual control of the irrigation system when needed.
- **Soil Moisture Detection:** Uses a soil moisture sensor to monitor the water content in the soil continuously.
- **Efficient Power Management:** Relies on low-power components like the IC 555 and 9V relay for energy efficiency.
- **Visual Feedback:** An LED provides a clear indication of the system's operational status.
- **Customizable Threshold:** A preset allows adjusting the moisture threshold according to the specific needs of the plants.
- **Simple and Low-Cost:** Easy to build with commonly available components.



## INDUSTRIAL VISITS & ACTIVITIES

- Industrial Visit: Door Darshan, Mumbai.
- NSS Activity: Participated in a community service program at Sanjay Gandhi National Park, Navpada Village.
- School Connect Activity: Conducted an advertisement campaign at Victoria High School to encourage students to join St. Xavier's Technical Institute after 10th grade.
- Participated in KHO-KHO inter college sports competition.



## EXTRACURRICULAR ACTIVITIES

- Sports: Swimming, Skating, Cycling, Chess, Carrom, Football.
- Hobbies: Reading books, exercising, learning coding.



## ACCOMPLISHMENTS

- Hafiz of the Holy Quran.
- Secondary School Certificate.