



# Dawood Tahir Mayo

**Date of birth:** 19/09/2004 | **Place of birth:** Faisalabad, Pakistan | **Nationality:** Pakistani | **Phone:** (+92) 3054623052 (Mobile) | **Email:** [dawoodtahirf21@nutech.edu.pk](mailto:dawoodtahirf21@nutech.edu.pk) | **Address:** 54800, Lahore, Pakistan (Home)

## ABOUT MYSELF

Final-year Civil Engineering student with practical experience in design, planning, and sustainable materials. Proficient in AutoCAD, ETABS, Primavera P6, Revit, and associated tools. Conducted research on bamboo fly ash concrete and was engaged in field-based projects such as Impermeable Blue Road and GHQ Housing Directorate internship. Dedicated to helping Pakistan's infrastructure through efficient and green engineering solutions.

## COMMUNICATION AND INTERPERSONAL SKILLS

### Soft Skills

#### 1. Technical Skills:

AutoCAD | Revit | ETABS | Primavera P6 | Bluebeam | GeoStudio | HEC-HMS | QGIS | EPANET | PlanSwift | DigiCart | MS Office | Canva | C++ (DevC++)

First-authored sustainable materials paper; Presented technical content

#### 2. Project and Management Skills:

Resolved design conflicts at GHQ; Built industry networks

Directed construction teams

Proficient in Softwears for making promotional content and event designs

#### 3. Leadership & Research

Led 500+ students as Prefect; Managed 5+ events 200+ participants as Drama President

## EDUCATION AND TRAINING

14/11/2021 – CURRENT Islamabad, Pakistan

**BACHELOR OF SCIENCE IN CIVIL ENGINEERING** National University of Technology (NUTECH), Islamabad

The major modules I studied during this degree are:

Structural Engineering (American-based Analysis & Design of RC/Steel Structures)

Geotechnical Engineering (Soil Mechanics)

Transportation/Hydraulics (Water Resources, Fluid Mechanics)

Sustainable Materials (Concrete Technology, Environmental Eng)

Engineering Software ( ETABS, AutoCAD, Primavera P6, BIM, C++ Programming, MATLAB, Planswift and Bluebeam)

**Website** <https://nutech.edu.pk/> | **Level in EQF** EQF level 6 | **National classification** Level 6 | **Type of credits** SCH | **Number of credits** 137 |

**Thesis** Sustainable Blended Concrete using Bamboo and Fly Ash

## EXPERIENCE

### Research and Internship

#### 1. Research Experience

First-author Conference Paper - Development Sustainable Concrete Tiles Using Bamboo and Fly Ash

Developed eco-friendly alternative with 28% higher crack resistance (ASTM C78)

Research - Sustainable Blended Concrete

#### 2. Professional Experience

GHQ Housing Directorate, Rawalpindi - Conducted safety audits for 4 building JV project

Reviewed architectural drawings for military compliance and Optimized material workglows via BBS, reducing waste by 15%.

**Link** <https://askaricoloniesmanagement.com/>

## PROJECTS

### Academic and Technical

#### 1. Smart Street Lighting System

2021-2022

Designed piezo-electric system for energy harvesting.

#### 2. Impermeable Blue Road

2022-2023

Achieved 92% waterproofing using paraffin-epoxy blend (ASTM D7791)

Potential 30% cost reduction vs traditional asphalt.  
3. Sustainable Concrete using Bamboo and Fly Ash  
2024-2025  
Bamboo-fly ash concrete (15% replacement, M25 grade, 35 MPa) for eco-pavements.

**HONOURS AND AWARDS**

**Cerifications**

**Leadership:** HRCA International Art/Essay Competition (2nd and 5th Season) | School Prefect  
**Technical:** ETABS Certified | Codingal Top 10% (Tech Aptitude) | Bright Champs  
**Sports:** National Inter-School Swimming Champion | 4x Marathon Winner  
**Arts:** Colgate Art Contest | My Dream Car | Singing Certifications

**LANGUAGE SKILLS**

Mother tongue(s): **URDU**  
Other language(s): **ENGLISH**

**RECOMMENDATIONS**

**Dr. Malik Sarmad Riaz** Head of Department,Assistant Professor

- I have known **Dawood Tahir Mayo** for several years as a dedicated student.
- He is wonderful in combining innovative thinking with technical skills, as shown in his **Smart Street Lighting project, Impermeable Blue Road** and his upcoming **Conference paper**. I strongly recommend him for your program.

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