
Ameer Turab

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Education

Hochschule Stendal Magdeburg

Masters in Water Engineering

Internship: Hydraulic and Hydrological analysis of the flooding event occurred in Bardonecchia in August 2023

Relevant Coursework: GIS and Applied Hydrology and Computational Fluid Dynamics-II

Magdeburg, Germany

April 2024 (on-going)

University of La Coruna

Study abroad Erasmus exchange coursework in Masters in Water Engineering

Relevant Coursework: Water Supply and Drainage Systems and Hydrological Planning and Projects-I

La Coruna, Spain

October 2022 – January 2023

Capital University of Science and Technology

BSc Civil Engineering

Relevant Coursework: Hydraulics and Irrigation Engineering, Advance Fluid Mechanics, and Environmental Engineering

Islamabad, Pakistan

August 2022

Experience

Politecnico di Torino

Mandatory Internship

Flood Analysis Project in Bardonecchia, Turin, Italy

Turin, Italy

October 2023 – March 2024

- Conducted post-flood hydrological analysis, utilizing QGIS for precise hydrological data processing, digital elevation model (DEM) conversion, and mesh generation to enhance hydraulic modeling accuracy.
- Demonstrated advanced proficiency in Basement software, optimizing geometry and hydraulics, culminating in a comprehensive flood protection strategy.
- Implemented hydrological and hydraulic modeling techniques to simulate flood events and assess the effectiveness of various flood management strategies.

Khanial Builders

Site Civil Engineer

Civil Engineering Project Management

Chakri, Punjab

January 2022 – August 2022

- Implemented Python automation, streamlining project data management and enhancing efficiency in hydraulic analysis.
- Executed detailed hydraulic analysis and assessment, employing EPANET and SWMM software, optimizing water infrastructure for peak performance.
- Managed civil engineering projects, focusing on water infrastructure and sewage systems, using AutoCAD for design and structures.

Defense Housing Authority (DHA), Islamabad

Internship

Hydraulic Infrastructure Planning and Design

Islamabad, Pakistan

October 2021 – January 2022

- Prepared hydraulic calculations and plans for water infrastructure construction, including conveyance systems and flood control.
- Designed and oversaw implementation of hydraulic structures, ensuring proper sizing and functionality for efficient water flow.
- Collaborated with senior engineers on critical decisions for water control elements, including sensors and hydraulic gates.

Core Technical Skills & Interests

Technical: QGIS, MATLAB, Basement, Hec-Ras 2D, EPANET, SWMM, Python, AUTOCAD

Language: Fluent English, Basic German, and Spanish