

# Hafiz Raheem Ullah

Civil 3d Modeler /Draftsman Infrastructure

**Date of birth:** 26/05/2000 | **Place of birth:** Malakand, Pakistan | **Nationality:** Pakistani | **Gender:** Male |

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**Address:** AL Khaleej, RIYADH, Saudi Arabia (Work)

## ● ABOUT ME

**Results-driven Infrastructure Draftsman** with 4.5 years of specialized experience in road design, civil drafting, utility modeling, and clash-free construction documentation. Proven expertise in *AutoCAD Civil 3D* for designing road networks, grading plans, and stormwater systems across major urban developments, including Bahria Town, Askari Housing projects, and currently at Yüksel İnşaat Saudi Arabia. Skilled in hydraulic analysis using *SewerGEMS* and *WaterGEMS*, and adept at resolving utility conflicts through *Navisworks* coordination. Committed to delivering precise, standards-compliant designs that optimize infrastructure efficiency and minimize construction risks. Seeking to leverage my technical drafting skills to contribute effectively to large-scale infrastructure projects.

## ● WORK EXPERIENCE

**YUKSEL INSAAT SAUDIA CO. LTD.** – RIYADH, SAUDI ARABIA

**DRAFTSMAN (INFRASTRUCTURE)** – 26/09/2024 – CURRENT

**Eastern Riyadh Stormwater Project (ERTP-3) – Client: Amana | Consultant: Dar Al Handasah**

- Designed stormwater drainage systems using AutoCAD Civil 3D, including shop drawings, longitudinal profiles, and catch basin details.
- Conducted 3D clash detection in Navisworks to identify and resolve conflicts between utilities, pipelines, and road structures.

**Traffic Hazard Mitigation – Riyadh Intersections – Client: Amana | Consultant: Mission**

- Modeled traffic safety upgrades at hazardous intersections, including guardrails, pedestrian crossings, lane realignments, and slope stabilization using Civil 3D.
- Supported the implementation of black spot treatments to improve road user safety in critical urban zones.

**HOUSING DIRECTORATE GHQ** – RAWALPINDI, PAKISTAN

**Business or Sector** Construction | **Department** Infrastructure

**HEAD DRAFTSMAN (INFRASTRUCTURE)** – 01/12/2023 – 24/09/2024

**Askari Housing Schemes (Multiple Cities) – Client: Pakistan Army**

- Developed construction-ready road designs using *AutoCAD Civil 3D*, including alignments, profiles, cross-sections, and grading plans for projects in Islamabad, Lahore, Karachi, Quetta, Multan, and Rawalpindi.
- Designed sewerage systems in *SewerGEMS*, integrating pipelines, manholes, and treatment facilities for effective wastewater management.
- Created drainage plans with stormwater channels, culverts, and retention basins to control runoff and prevent flooding in residential areas.
- Modeled water supply networks using *WaterGEMS*, including pipelines, delivery systems, and storage tanks tailored to scheme requirements.
- Drafted layouts for underground and overhead water tanks, septic tanks, and rainwater harvesting systems, ensuring structural accuracy and functionality.
- Performed clash detection in Navisworks to identify conflicts among utilities (water, sewer, electrical), ensuring smooth coordination.
- Supported joint venture design reviews, collaborating with other consultants to maintain quality, consistency, and compliance across deliverables.

**BAHRIA TOWN** – RAWALPINDI/ISLAMABAD, PAKISTAN

**Business or Sector** Construction | **Department** Planning and Design

**AUTO CAD OPERATOR (INFRASTRUCTURE)** – 01/01/2021 – 29/11/2023

- Contributed as an AutoCAD Operator in the Planning & Design Wing of Bahria Town (Pvt.) Limited, supporting infrastructure projects in Rawalpindi/Islamabad.
- Created precise layout plans, road alignment data, L-sections (profiles), and cross-sections using Civil 3D, ensuring accurate road design and smooth execution.

- Designed efficient sewerage, drainage, and water supply networks using Bentley SewerGEMS and WaterGEMS, meeting project infrastructure standards.
- Produced Digital Terrain Models (DTMs) from survey data using Golden Software Surfer, providing accurate topographical insights for project planning.
- Developed 2D and 3D architectural plans, sections, and elevations, delivering detailed and functional designs for a variety of construction projects.
- Prepared accurate location plans using Global Mapper and Google Earth Pro to support comprehensive project planning and decision-making.
- Showcased expertise in printing, plotting, digitizing, and scanning, ensuring high-quality outputs and seamless documentation management.

## ● EDUCATION AND TRAINING

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2020 – 2021 Islamabad , Pakistan

**CIVIL DRAFTSMAN** Oxford Institute of Technical Training Center Rawalpindi

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01/06/2021 – 31/12/2021 Rawalpindi, Pakistan

**AUTO CAD 2D/3D LEVEL 3 Construction Technology Training Institute**

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2018 – 2020 Rawalpindi, Pakistan

**FSC PRE ENGINEERING** Muslim Higher Secondary School No1

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2016 – 2018 Rawalpindi , Pakistan

**METRIC SCIENCE** Suffah Boys Secondary School

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## LANGUAGE SKILLS

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Mother tongue(s): **PASTO**

● Other language(s): **URDU | ENGLISH**

## SKILLS

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● AutoCAD Civil 3D | Navisworks | Bentley WaterGEMS | Bentley SewerGEMS | Vehicle Tracking | Golden Software Surfer (Expert) | Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access | Global-mapper | GOOGLE EARTH