



# ZAHEER ABBAS

## CONTACT DETAILS



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## SKILLS

- GIS Software: ArcGIS, ArcGIS Online, ArcGIS Pro, QGIS, ENVI, MapInfo, CAD, Google Earth
- Data Analysis: Spatio-Temporal analysis, statistical analysis
- Spatial Databases: PostgreSQL/PostGIS
- Programming: Python for GIS automation, HTML, CSS, JS, Geoserver, PyQGIS, Arcpy
- Remote Sensing: Image analysis, remote sensing data, Satellite Image Processing
- Geospatial Intelligence
- Analytical and Critical Thinking
- Microsoft (Word, Excel, PPT)
- Communication

## PERSONAL STATEMENT

A dedicated and resourceful individual who has the motivation to work hard and the determination for success. With the excellent command over open source and closed source GIS environments I'm versed in geo-databases, Spatial-temporal analysis, interactive mapping and satellite image processing and utility planning.

## WORK HISTORY

February 2024 – Present

### GIS Planner

All Points Fibre (Reading, UK)

- Develop and implement quality control plans and procedures for fiber optic projects using GIS tools and Geodatabases for spatial analysis.
- Create and maintain QC checklists and inspection protocols, integrating GIS data layers for reference.
- Performs end to end FTTX network design using GIS software, GPS equipment and other related tools (Lepton, ArcPro/QGIS, Setics)
- Implemented As-Built audits in the design and spliced into the web based inventory system

February 2021 - September 2022

### GIS Engineer

Transworld Enterprise Services

- Lead geospatial analysis projects, including data collection, processing analyzing and mapping by using advance cartographic techniques.
- Built and maintained FTTH-based geospatial database, web portal and modified parameters for different needs, ensuring data accuracy and accessibility.
- Designed and planned fibre network design for various projects, ensuring optimal routes, capacity and signal quality.
- Worked closely with surveyors and other cross-functional teams, by providing them design support and by fulfilling their on demand requirements in field to integrate and deploy GIS solutions into the field.
- Extensive experience in preparing HLD, LLD, BOQ, SLD, FAS and other design related documents.  
Made recommendations regarding upgrades, considering implications of new and revised Geographic Information Systems (GIS) software, equipment, and applications.

July 2019 - February 2021

### GIS Analyst

Standard Solutions Engineering

- Designed and Planned, the FTTH-networks mainly England projects and planned most of the areas of Bradford, Swindon, and Paisley.
- Contributed to centralized GIS portal and ArcGIS online database, correctly inputting data on portal and revising data on changing conditions.
- Development and maintenance of data management policies, procedures, and standards.
- Experienced in using and identifying existing telecom infrastructure from the BT Portal to identify suitable features in the design.
- Worked for Jorvic Design Group, 4site as CityFibre projects and People Fibre for FTTH design

- Led by team of 12 people, addressed their Cityfibre-plugin and environment related issues.
- Entered data into Geographic Information Systems (GIS) databases using techniques such as coordinate geometry, keyboard entry of tabular data, manual digitizing of maps, scanning, and automatic conversion to vectors, and conversion of other sources of digital data.

July 2018 - September 2018

### **GIS/RS Intern**

TPL Maps

- Big Spatial Data Analysis and Mapping using QGIS/PostgreSQL/ PostGIS Database
- Used critical thinking to break down problems, evaluate solutions and make decisions on one source freely vector data
- Pak General Elections 2018 Jurisdiction and Results Mapping
- Internet Mapping with Geoserver and PostgreSQL

## **EDUCATION**

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September 2023

### **MSc in Project Planning and Management**

University of Bradford, Bradford

#### **Relevant course**

- Project Planning and Design, Project Finance and Appraisal, Project Implementation Management

July 2019

### **BS in Geo-Informatics, GIS and RS**

PMAS Arid Agriculture University, Rawalpindi

#### **Relevant course**

- GIS, Advance Remote Sensing, Geodatabases, SDI, SDDS, Python Programming, Web GIS, Cartography, Geodesy, GIS/RS Applications, Natural Sciences

## **PROJECTS**

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- The Implementation of the Sustainable Development Goal Particularly in Areas of Sustainable Cities (Master's Thesis).
- Automated Feature Extraction and Socioeconomic Parameter Estimation from Satellite Imagery using Deep Learning (FYP).
- Mangrove Change Detection in Indus Delta Wetland (1988-2018) using Landsat
- Mapping 2017 Karachi Floods using Sentinel-1 SAR Data.
- ArcGIS Landuse Suitability Analysis and Site Selection for Urban Development in Rawalpindi using Geospatial Technologies.
- Mapping 2017 Karachi Floods using Sentinel-1 SAR Data.