Md. Mehedi Hasan Khan

Professional Planner

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Career Objective

Seeking a position in the field of the Information Management/GIS in an organization where I can apply my knowledge and experience for the betterment of the organization. My new ideas and techniques of working in information management department should assist me in participating in organization development.

Area of Interest

Information Technology, Monitoring and Evaluation, GIS and Remote Sensing, Climate change and DRR

Academic Background

Degree / Certificate	Concentration	Institution
Masters in GIS for Environment and Development	CGPA 3.90	Jahangirnagar University
Bachelor of Urban and Regional Planning	CGPA 3.71	Khulna University of Engineering & Technology, Khulna
HSC (Higher Secondary Certificate)	GPA 5	Dhaka College, Dhaka
SSC (Regular)	GPA 5	Hasan Ali Govt. High School, Chandpur

Work Experience

REACH INITIATIVE

1. Data/GIS specialist
Working period: July 2020 to Continue

The major responsibilities:
1. Research/survey design including sampling, tool development
2. Data quality check (validity, integrity, precision, reliability and timeliness)
3. Automation data collection and analysis process with advance tool like advance excel, R programming and WebGIS
4. Preparing and validating various maps for internal and external use
5. Overall management of data team and enumerators

2. Sr. GIS Officer
Working period: April 2019 to June 2020

The major responsibilities:
1. Preparing maps for both internal and external use
2. Data cleaning and analysis by using R and ArcGIS.
3. Data visualization in tableau/power BI
4. Kobo form development (Advance XLS version) and deploy to kobo server
5. Landslide Risk Mapping
6. Spatial and Aspatial analysis
7. Satellite Image Analysis (NDVI, LULC (by ecognition) NDWI)

Information Management Specialist [1]
Working period: April 2019 to Continue
The major responsibilities:

1. Preparing online and offline map /dashboard /report through R , ArcGIS, QGIS, Power BI and Tableau
2. Preparing and maintaining an online database through deploying KOBO and Google form
3. Continuous update and managing google group (mailing list) and WhatsApp security group and Team Leader group as per as google sheet and disseminate the information to NGO Platform members.
4. Communicate to all member of NGO platform during the critical period in Cox's Bazar for confidential information disseminating (FD6, FD7, Security, camp pass and VISA)

BRAC

Senior Officer/QC, M&E
Working period: July 2018 - April 2019

The major responsibilities
5. Maintaining and updating MIS
6. Data collection and cleaning
7. Regular field visit for data collection and process monitoring
8. Data Analysis and preparing map
9. Collects data when necessary (Through KOBO)
10. Data validation and quality check (According to 5 dimensions of USAID)
11. Statistical analysis (through SPSS and Excel) of collected data
12. Report writing and documentation

Bangladesh Red Crescent Society (BDRCS)

GIS Consultant
Working period: Jan 2019 – Jan 2019

The major responsibilities
Developing a Geographic Database and Preparing Maps for Targeted Communities

Khulna University of Engineering and Technology (KUET)

Research Assistant
Working period: July 2017 – Jun 2018

The major responsibilities
Here my responsibility was to post processing of satellite images by using ERDAS Imagine and ArcGIS and Temperature and Rainfall pattern analysis by using RclimDex (An extension of R)

Asian Disaster Preparedness Center (ADPC)

Intern
Working period: May 2017 – Jun 2017

The major responsibilities
Preparing GIS database of Savar Municipal for Multi Hazard Risk and Vulnerability Assessment

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[1] *As an agreement Between REACH, ECHO and Bangladesh Rohingya Response NGO Platform (hosted by Danish Refugee Council (DRC)), I also work for Bangladesh Rohingya Response NGO Platform 2 days per week under secondment contract*

GIS and Other Skills

1. **Database:** MySQL, R, SPSS
2. **GIS Software:** ArcGIS (both desktop and Online), QGIS, ERDAS Imagine, eCognition, Open street map (OSM), Mymaps, Google Earth
3. **GIS Skills:** Digitizing, Spatial analysis, Suitability Analysis, DEM Analysis, Data Management, Geodatabase, Map Presentation, Vulnerability and Risk Analysis, Beneficiaries Analysis, Distance Analysis, Surface Analysis, Satellite Image Analysis, NDVI, NDWI, LULC, OSM data extraction, GPS base data collection, deep understanding on projection/coordinate system, geodatabase, data conversion.
4. **Spreadsheet:** Microsoft Excel, Google sheet
5. **Graphics**: Power BI, Tableau, Google Sketchup, Adobe Photoshop, Adobe Illustrator, Adobe premiere pro, Adobe Lightroom and Microsoft PowerPoint
6. **Mobile Application:** ODK, KOBO toolbox, ArcGIS Collector, GPS Logger

Training and Courses

Title	Duration	Details
Training on humanitarian principles (SPHERE)	1 day	One full day training on various humanitarian principles, provided by Bangladesh Rohingya Response NGO Platform and Disaster Forum jointly
GIS Data Formats, Design and Quality	1 month	4-week course authorized by University of California offered by coursera
Fundamental of GIS	1 month	4-week course authorized by University of California offered by coursera
WebGIS and Geoserver	1 month	Certificate on completion of Web GIS and Geoserver Course offered by Udemy
Gender Sensitization Training	3 days	Three days training on Gender Issue provided by BRAC
Poster Presentation	2 days	Participation in "Poster Presentation" section of Cennovation 2015, Organized by Department of Civil & Environmental Engineering, Islamic University of Technology (IUT)
Training on Sketchup 3D	2 days	Given by Design Integrated Society of KUET (DISK)
R for data cleaning	1 day	Given by REACH International Data team

Publications

1. **Khan, M. M.,** & Sarkar, S. K. (2019). LANDSLIDE MODELLING AND RISK ASSESSMENT: EVIDENCE FROM. Journal of Engineering Science, 91-101.
2. **Khan, M. M**., Prapti, S. T., Sarkar, S. K. A GIS BASED VULNERABILITY AND RISK ASSESSMENT OF FLOOD HAZARD IN COSTAL AREA: A CASE STUDY OF KOYRA UPAZILA, KHULNA. International Conference on Disaster Risk Mitigation (ICDRM, 2017) Dhaka, Bangladesh: BUETJAPAN
3. **Khan, M. M**., Sarkar, S. K. LANDSLIDES: AN INVENTORY ANALYSIS OF CHATTOGRAM CITY. International Conference on Disaster Risk Mitigation (ICDRM, 2019) Dhaka, Bangladesh: BUETJAPAN
4. Zunayed, N., **Khan, M. M.,** (2017). A GIS BASED SUITABILITY ANALYSIS FOR WASTE DUMPING ZONE– TO IMPROVE THE PRESENT CONDITION OF THE COMMUNITY: A CASE STUDY ON WARD 24 (NIRALA), KHULNA CITY, BANGLADESH. 5th International Conference on solid waste management
5. Prapti S. T., **Khan, M. M**., (2018) IMPACT OF PHYSICAL FEATURE ON TRAFFIC CONGESTION: A CASE STUDY OF KHULNA JESSOR HIGHWAY, KHULNA. 4th International Conference on Civil Engineering for Sustainable Development (ICCESD 2018), KUET, Khulna, Bangladesh.
6. **Khan, M.M.,** (2017). ANALYSIS OF CAUSES AND IMPACT OF WATER LOGGING IN KHULNA CITY OF BANGLADESH. International Conference on Mechanical, Industrial and Materials Engineering 2017 (ICMIME2017) RUET, Rajshahi Bangladesh.

References

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