**[Md. Mehedi Hasan Khan](https://www.linkedin.com/in/mhkhan27/)**

Professional Planner

**Contact**

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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**

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| --- | --- | --- |
| **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**](https://www.reach-initiative.org/)

**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  [map](https://www.reach-initiative.org/where-we-work/bangladesh/?pcountry=bangladesh&dates=Date&ptype=map&subpillar=)s 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 [map](https://www.reach-initiative.org/where-we-work/bangladesh/?pcountry=bangladesh&dates=Date&ptype=map&subpillar=)s for both internal and external use
2. Preparing web and web app
3. Data cleaning and analysis by using R and ArcGIS.
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)

[**Bangladesh**](https://www.reach-initiative.org/) **Rohingya Response NGO Platform**

**Information Management Specialist [[1]](#footnote-1)**

**Working period:** April 2019 to Continue

***The major responsibilities:***

1. Preparing online and offline map /[dashboard](https://public.tableau.com/authoring/BangladeshRohingyaResponseNGOPlatformDashboard/Dashboard3) /[report](https://ngoplatformmonthlyupdate.blogspot.com/2019/10/4w-of-bangladesh-rohingya-response-ngo.html) 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**](http://www.brac.net/program/gender-justice-and-diversity)

**Senior Officer/QC, M&E**

**Working period:** July 2018 - April 2019

**The major responsibilities**

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

[**Bangladesh Red Crescent Society (BDRCS)**](http://www.bdrcs.org)

**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)**](http://www.kuet.ac.bd/department/URP)

**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)**](http://www.adpc.net)

**Intern**

**Working period:** May 2017 – Jun 2017

**The major responsibilities**

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

**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](https://drive.google.com/file/d/1PxQrxzzEUH24ep06WYGu-TONg_KDhKBT/view?usp=sharing) | 1 month | 4-week course authorized by University of California offered by coursera |
| [Fundamental of GIS](https://drive.google.com/file/d/1vttsy1obHrXEcLztDSO0cshvzvMPvLiP/view?usp=sharing) | 1 month | 4-week course authorized by University of California offered by coursera |
| [WebGIS and Geoserver](https://drive.google.com/file/d/1xIEKyzahbaBLogz5fnQ7CNSjuB3641PV/view?usp=sharing) | 1 month | Certificate on completion of Web GIS and GeoserverCourse 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.

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| **Nina Yang**  Research Manager  REACH Initiative  Email: nina.yang@reach-initiative.org  Phone: + 1 (415) 693-8447  Office: Hotel Need Bay Watch, Cox’s Bazar | **Zack Arno**  REACH GIS Officer  REACH Initiative  Email: zack.arno@reach-initiative.org  Phone: +8801865204567  Office: Hotel Need Bay Watch, Cox’s Bazar |

**References**

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*  [↑](#footnote-ref-1)