MD ARAFAT HASSAN

https://arafathassan1.github.io | hassanarafat@yahoo.com | https://linkedin.com/in/arafat-hassan-3364b2146/

EDUCATION

B.S. Geographic Information Sciences
The Ohio State University
- Minor in City and Regional Planning

SKILLS

- Bi-lingual: English and Bangla
- Proficient knowledge
  - C# (MS Visual Studio)
  - Java (Eclipse)
  - MATLAB
  - NetLogo
  - Python (IDLE, ArcPy, PYQGIS, Field Calculator ArcMap)
  - SQL
  - Arcade Expressions
  - HTML, CSS, JavaScript (MS Visual Code)
- Extensive knowledge
  - ArcGIS Online, ArcGIS Enterprise
  - ArcGIS Pro, ArcMap, ArcView
  - Attribute Assistant
  - AutoCAD
  - ArcGIS Data Reviewer
  - ArcGIS Collector, Field Maps, Survey123
  - ERDAS Imagine
  - Geocoding, Georeferencing
  - Geometric Network
  - ArcGIS Hub
  - Microsoft Access
  - Microsoft Office
  - PostgreSQL
  - Microsoft SQL Server Management Studio
  - QGIS
  - SolidWorks
  - SQL Expressions in ArcMap
  - ArcGIS StoryMaps
  - Trimble R2 Integrated GNSS System
  - Work Management System (WMS)
  - Workforce for ArcGIS
- Traits
  - Curious/Eager to learn
  - Driven/Determined
  - Enjoy taking initiative
  - Fast Learner
  - Goal-Oriented
  - Positive
  - Problem Solver
  - Team Worker

RELEVANT COURSEWORK

- Cartography and Map Design
- Design and Implementation of GIS
- Spatial Database Design for GIS
- Geographic Applications of Remote Sensing

CAREER SUMMARY

City of Westerville
Westerville , OH
Systems Analyst/GIS Administrator | February 2022 to Present
- Develop short and long-range plans, goals, objectives and priorities to improve operational efficiency and effectiveness for GIS development and integrations to the better assist the city staff and stakeholders
- Communicate with GIS users to determine needs assessments (equipment, software, hardware, etc) to determine current and future needs and provide/implement recommendations such as building a custom printing widget for WebGIS
- Maintain and monitor the health of the GIS servers including performing monthly updates for both ArcGIS Enterprise and ArcGIS Online
- Develop, administer, and maintain GIS web sites and applications for the Internet and Intranet and performs continuous updates of core City GIS data and web site information such as the Westerville Transparency Hub via nightly run scripts
- Communicate with the various general public, vendors, management and contractors in order to coordinate and administer the use of GIS projects and data such as Tyler Technologies - New World, FuturaGIS, etc
- Represent the GIS team on committees and task forces by serving as a technical advisor in the exchange of information or in addressing specific needs
- Prepare, process, and review written documents pertaining to GIS to ensure compliance with departmental policies and procedures
- Prioritize and track time-sensitive projects and assignments to ensure timely completion
- Coordinate and oversee various special projects and/or presentations in support of the GIS system including transitioning from current aerial imagery provider, giving GIS presentation at the Citizens Academy, etc
- Establish and maintain effective working relationships with superiors, fellow workers, and vendor's representatives
- Review programs, white-papers, research papers, attend training courses, attend GIS Steering Committee meetings, etc. to develop innovative approaches to problem solving and to make recommendations
- Develop, document, and provide GIS standards, training and guidance for GIS users within the City

NiSource-Columbia Gas of Ohio
Columbus, OH
GIS Technician | January 2021 to February 2022
- Analyze design capital project completion information by reviewing proper pressure tests, materials, and facilities to assure compliance with proposed engineering designs, company policies, practices, standards and other applicable codes
- Update/maintain GIS and work management system to accurately reflect gas system updates using given project as-built and related documentations
- Execute capital projects including providing new gas service to new customers, public roadway improvements and relocations, gas system improvement and maintenance in a timely manner that adheres with the department metrics
- Provide technical assistance through communication and collaboration with stakeholders
- Proactively collaborate with leaders, co-workers, and key business partners with planning
- Assist co-workers with executing their capital projects
- Guide Field Operation staff to provide accurate information for non-capital work to capital work
- Actively reaching out to participate on upcoming department projects
- Continuously learning about upcoming GIS news and tools to keep up with the industry

City of Canton Water Department
Canton, OH
GIS Analyst/Engineering Technician I | May 2019 to January 2021
- Maintain and update enterprise GIS databases with new/existing water distribution system data in a Geometric Network and CMMS
- Perform quality assurance for the water distribution system data from multiple sources (field workers, historical records, engineering drawing, and AutoCAD drawings)
- Initiator of the organizational system that keeps records of the waterline projects including creating as-built drawings and end of the year cost reports
- Apply hosted feature layers in ArcGIS Pro to append next day assignments in Workforce for ArcGIS of water assets verification for interns
- Create web maps and applications such as dashboards by utilizing ArcGIS Online
- Utilization of Workforce for ArcGIS, Collector, and Survey123 app to perform data collection
- Perform in field data collection of GPS data from new/replaced water valves, fire hydrants, curb stops, and fittings using Trimble products
- Provide teaching and mentorship to GIS interns
- Assists with tech support to field workers and troubleshoot with the county GIS Department