

# Dusty Edward Werth

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## SKILLS

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**Languages:** Python, SQL, VBA, Bicep, Arcade

**Data Visualization:** Power BI, Experience Builder Dashboards (ArcGIS Online), Microsoft Excel

**Cloud Platform:** Microsoft Azure

**Data Analysis:** ArcGIS Model Builder, Feature Manipulation Engine (ETL Software), Power BI  
Data Modeling, Microsoft Excel (Advanced Functions, Custom Functions, Macros)

## PROFESSIONAL SUMMARY

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**Associate Environmental Scientist** with 17+ years of GIS and consulting experience. Specializing in process mapping and developing tools to increase efficiency and quality. Leading and organizing teams to take on multiple projects simultaneously while providing effective communication with stakeholders ranging from new hires to Global Practice leadership.

## EXPERIENCE

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### **Associate Environmental Scientist | Burns & McDonnell**

*Jan. 2023 – Present*

- Implemented the first Spark program in the company's history to find and recognize employee-owners who have implemented innovations on active projects
- Developed and implemented a training program that resulted in approximately 1,300 person-hours of training
- Implemented numerous process improvements that are estimated to save over 5,500 hours in 2024
- Implemented a data governance program to increase efficiency and quality for all aspects of the GIS program
- Directed the software license review resulting in a savings of approximately \$250k per year
- Managed the development of the new fully web-based version of the RAPID Application
- Developed Infrastructure as Code to deploy Azure environments (Bicep)
- Implemented and Maintained FME Flow application and servers

### **Senior Environmental Scientist | Burns & McDonnell**

*Jan. 2014 – Dec. 2022*

- Served as an assistant project manager as well as principal investigator on numerous projects primarily focused on the Electric Utility and Renewables Market Sectors
- Developed numerous tools to decrease active time on projects and increase quality
- Developed the first iteration of RAPID Application
- Supported the development of the custom Envolve Software
- Oversaw the transition of the Envolve software from the external vendor to our BMI team
- Developed the Data Model for Envolve to allow for accurate reporting via Power BI
- Implemented the first Ignite program in the Environmental Services Global Practice history
- Developed numerous training programs and classes for the Environmental Services Global Practice
- Assembled a team of developers to support the custom software needs of Environmental Services Global Practice
- Worked with IT on numerous initiatives

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## Staff Environmental Scientist | Burns & McDonnell

*Jan. 2010 – Dec. 2013*

- Served as Principal Investigator on routing and siting studies
- Began the ENS GIS practice by teaching myself the software and presenting the value of having internal staff to do the work
- Began the Aeronautical Obstruction Evaluation team to evaluate projects for impacts prior to submitting to the FAA
- Created the ENS Cost Estimating tool that is currently used to estimate every project proposal for ENS
- Architected the Route Analysis tools used on routing and siting studies today
- Served as the IT Coordinator for the ES&P Global Practice

## Assistant Environmental Scientist | Burns & McDonnell

*June 2006 – Dec. 2009*

- Assisted project managers on routing and siting studies, environmental assessments, categorical exclusions, and environmental impact studies
- Developed applications to increase quality and decrease time for data analysis in routing and siting studies

## EXPERTISE

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- Process Mapping and Improvement
- Workflow Creation and Optimization
- Data Conversion and Integration
- Data Modeling and Visualization

### GENERAL

Application development  
Agile  
Waterfall  
DevOps  
CI/CD  
User experience testing  
Process mapping and improvement  
Requirements gathering  
Software testing  
Systems integration  
Workflow design  
Data Modeling  
Database design

### SOFTWARE

Feature Manipulation Engine (FME)  
Microsoft SQL Server  
ArcGIS Desktop  
ArcPro/ArcMap/ArcCatalog  
ArcGIS Online (AGOL)  
Microsoft Windows Server  
Microsoft Office  
Microsoft Project  
Power BI  
UiPath  
Visual Studio Code  
Github  
Microsoft SQL Server Management Studio (SSMS)  
Fiddler

## EDUCATION

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**Bachelor of Science – Biology | Avila University**

2006