

# John J. Ehlen

## Geospatial Professional

*with a passion for problem-solving*

Prescott, AZ

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### EXPERIENCE

#### **FilmLA** - Hollywood, CA (Remote - Full time)

*Sr. Analyst / Consultant* - June 2022 - Present

Manage off-site large scale GIS environment running on Linux and PostgreSQL in GCP. Develop/maintain custom GIS application using SQL, Python, Javascript, HTML/CSS & Java. Ensure data integrity and security of proprietary information. Provide technical support/training. Collaborate with internal departments to integrate GIS into their applications and workflows, promoting efficient data sharing and communication across departments.

#### **Works Consulting** - Gilbert, AZ (Remote - Part time)

*Sr. Analyst / Consultant* - June 2022 - Present

Assist in ArcGIS Portal and ArcSDE Administration. Automate complex workflows through python and built-in Esri tools.

#### **Gistic Research Inc.** - Tempe, AZ (Remote - Full time)

*GIS Project Manager* - Jan 2021 - June 2022

Managed multiple concurrent projects for state-level agencies including ADOT, AZDOA, & NYSDOT. Coordinated with multiple stakeholders to keep projects within temporal and budgetary constraints. Actively developed in SQL, Python, and FME to assist in project development and delivery. Founded/hosted the FME in GIS-T special interest group on LinkedIn.

#### **Embry-Riddle Aeronautical University**, Prescott, AZ (On-Site - Full time)

*Adjunct Faculty* - Jan 2021 - August 2022

Developed GIS course content and participated in instruction and dissemination of both lecture and lab materials.

#### **Yavapai County - GIS**, Prescott, AZ (On-Site - Full time)

*Geographic Information Systems Specialist* - Oct 2019 - Feb 2021

Automated transformation of legacy datasets into NG911 NENA compliant schema. Managed schema translation and distribution of government datasets covering 8,000+ sq mi.

### EDUCATION

#### *M.S. Geographic Information Systems Technologies*

University of Arizona, Tucson, AZ

Jan 2018 - Aug 2019

#### *B.S. Parks and Recreation Management*

Northern Arizona University, Flagstaff, AZ

Aug 2009 - May 2013

### SKILLS

- Large-scale project management in the government sector
- Database design and management
- Establishing quality control procedures/techniques
- Designing, automating and integrating complex workflows within large-scale GIS environments using various languages & FME
- Educational content development and delivery
- Languages: Python, SQL, Javascript, HTML/CSS, VB, C#, FME
- Data visualization using Tableau, SSRS, ArcGIS, and Google Data Studio
- ESRI Products (Including Enterprise, Portal, Server)
- GCP administration / Linux Server Administration

### MEMBERSHIPS

- National Emergency Number Association (NENA) RCL Stewardship Working Group
- Arizona Geographic Information Council's (AGIC) 9-1-1 Data committee
- US DOT WZDx Specification Worker Presence Subgroup

## PROFESSIONAL CERTIFICATES

**FME Certified Professional - Safe Software** - December 2021 - [Validate Credential on Wall-Of-Fame](#)

**Part 107 Remote Pilot (SUAS) - FAA** - August 2021 - [Credential ID 4548540](#)

**Google IT Automation with Python Professional Certificate** - October 2020 - [Credential ID 6ZQ3DED4CKHK](#)

**Google Project Management: Professional Certificate** - [Expected April 2022](#)

## MAJOR PROJECT EXPERIENCE

### **State of Arizona DOT Data Review and Visualization (02/2021 - June 2022)**

The Gistic team works with ADOT Multimodal Planning Division (MPD) in enhancing data report and analysis capabilities through better data governance practices and leveraging and integrating IT technologies in data ETL and visualization.

### **State of Arizona 9-1-1 Program Office NG911 Address Management Enhancement (02/2021 - June 2022)**

Lead the continued development of Arizona's Geospatial Integration and Validation System (AZGIV), Gistic's NG911 data validation platform, and provide extensive training and customer support through scheduled training sessions.

### **State of Arizona DPS Statewide Append Project (05/2021 - 10/2021)**

Spearheaded the effort to modernize and automate the State of Arizona NG911 data aggregation efforts through the extensive use of FME and Python scripting.

### **Address Analysis with Artificial Intelligence (A3i) Development (03/2021 - June 2022)**

Developed a custom python tool allowing customers to parse addresses from within ArcGIS Pro using AI and NLP engines. Participated in parser development by contributing to training models to improve parse accuracy.

### **Yavapai County NG911 Data Migration (10/2019 - 02/2021)**

Developed processes to automate the transformation of legacy datasets into an NG911 NENA compliant schema. These datasets cover more than 8,000 sq. miles and are used by the local PSAP for routing purposes.

### **FME In Transportation Special Interest Group Administrator (02/2021 - June 2022)**

Initiated the creation of an FME SIG with the hopes of unifying local governments, state-level DOT's, and the private industry as well as serving as a holistic framework in which knowledge can be openly shared via the transportation community. John is a co-moderator of the monthly presentation series.

## PROFESSIONAL PRESENTATIONS

### **[ADOT: Visualizing Roads and Highways Errors - Creation of an Executive Dashboard](#)**

Esri Roads and Highways User Group (RHUG), November 2021, Virtual Conference

### **[Intelligent Street Address Management in Support of Arizona's NG911 Integration](#)**

Arizona Geographic Information Council Symposium, October 2021, Virtual Conference

### **[ADOT: Navigating Roads to Data Visualization](#)**

Arizona Geographic Information Council Symposium, October 2021, Virtual Conference

### **[ArcGIS Domains: Using FME where Esri Falls Short](#)**

FME In Transportation SIG, September 2021, LinkedIn Group

### **[Visualizing Attribute Discrepancies between Address and Centerline Datasets - Fishbone Analysis](#)**

Arizona Geographic Information Council Symposium, October 2020, Prescott, AZ