

Years Experience: 17

Education

- Pennsylvania State University- Master of Science in Geography
- Slippery Rock University of Pennsylvania- Bachelor of Science in Geography
- Temple University- Associate of Science in Landscape Design

Experience and Qualifications

Ms. Evans has a wide range of experience with civil engineering, landscape design and geographic projects. She has been a project designer for map production and maintenance of databases for civil projects; has designed GIS projects involving community development and community service databases; and has designed green landscapes for residential and commercial properties.

Representative Projects:***Geographic Information Systems (GIS) / Cartography***

- Masters Thesis - Researched various means of displaying cartographic reliability data in an animated environment, incorporating classification of remotely sensed imagery, animated mapping and testing of subjects, resulting in publication.
- Produced Municipal GIS for Middlesex Township, Butler County, using ArcView; creating and attributing parcel layer from tax maps using digital planimetric mapping as a base.
- Digitize and attribute flood data, and other base data, from FEMA's FIRMs using Microstation and ARCInfo for GIS.
- Mercer County 911 – Responsible for continuously revising and updating Mercer County, PA road map and databases within a GIS using Microstation, ARCInfo, and DB3.
- Slippery Rock Township – Produced and periodically updated zoning map using ArcView GIS technology.
- Responsible For All Areas of Map Production for Planning Firm – Data compilation, digitalization and attribution, choice and placement of symbology and typography.
- Community Development Block Grant Applications – Produced map series for numerous municipalities using GIS to facilitate decision making for direction of future growth.
- Mercer County, PA – Updated and prepared photo-ready masters of county road map.
- Mercer County, PA – Maintained address and road databases within GIS and assigned 911 addresses of residents.

Drafting: Microstation and AutoCAD

- Drafted various street and sidewalk improvement surveys for the city of Pittsburgh.
- Drafted existing conditions for many highway relocation projects in both Pennsylvania and West Virginia.
- Drafted existing conditions and design proposal for regulated clean waste landfill.
- Delineated surveyed utility locations for proposed glycol recovery system. And drafted "as-built" survey for same facility to be incorporated into a GIS.

- Drafted existing conditions and design proposal for removal of potentially hazardous waste at Pittsburgh International Airport.
- Drafted numerous pavement surveys for Pittsburgh International Airport.
- CADD Supervision – Supervised three CADD operators, including; project set-up, distribution, quality checks, and submittal to client.
- Drafted various types of surveys (mortgage, property, construction and ALTA) for various clients using AutoCAD and Microstation.

Site Development

- Clarion County Comprehensive Plan:
 - Wrote physical landscape portions of Comprehensive Plan.
 - Used GIS/mapping to facilitate location of resources and areas of concern.
- Held discussions with municipalities involving planning and zoning issues.
- Assisted with community meetings as preliminary stage of comprehensive plans.
- Produced graphics for use in various municipality's zoning regulations.
- Collected GPS stationing data and assisted with data reduction to cover 500 manhole sewer investigation and mapping project for Allegheny County Sanitary Authority.

Landscape Design

- Designer of sustainable gardens, incorporating native plants and natural materials as hardscape; creating streams and ponds, decking, patios, and other outdoor structures to produce natural environments. Clients range from small single-family homes to massive commercial sites.

Professional Activities:

- Instructor of World Geography at Butler County Community College
- Teaching Assistant at Pennsylvania State University

LECTURES AND PUBLICATONS:

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| April 1998 | <i>The Working World of GIS</i> , Guest lecturer, Department of Geography, Slippery Rock University of Pennsylvania. |
| May 1997 | <i>Dynamic Display of Spatial Data-Reliability: Does it Benefit the Map User?</i> <u>Computers and Geosciences</u> , Vol. 23 No. 4 Pergamon, Elsevier Science Ltd., 409-422. |
| March 1995 | <i>Cartographic Display of Spatial Data-Reliability: Does it Benefit the Map User?</i> Paper presented at the annual meeting of the <i>Association of American Geographers</i> , Chicago. |