

# CURRICULUM VITAE

## DANIEL J. LEININGER

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(330) 429-4217

### EDUCATION

**Master of Science**, Indiana University of Pennsylvania, Indiana, Pennsylvania -- December 1996  
Major: Geography, Concentration Geographic Information Systems

**Bachelor of Science**, Clarion University of Pennsylvania, Clarion, Pennsylvania -- May 1987  
Double Major: Earth Science, Geography

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### PROFESSIONAL EXPERIENCE

#### **MACKIN ENGINEERING COMPANY, Pittsburgh, Pennsylvania**

*GIS Coordinator*  
*Manager GIS Services*

**2007 - Present**  
**2002 - 2006**

Department manager/coordinator with full responsibility for the coordination of all projects and activities within the GIS department. Successfully developed and implemented a plan for the integration of the GIS technology into the Environmental, Planning, Traffic, and Survey departments.

- Worked directly with the Planning, Environmental, Traffic, and Highway departments to design and develop the GIS element for all departmental projects requiring the use of the technology.
- Trained company personnel in the use of ArcGIS to enable them to function at a GIS technician or analyst level within the departments where the technology was being implemented.
- Wrote and submitted GIS project proposals, as well as the GIS section for all of the Planning, Traffic, and Environmental departments' project proposals.
- Met with existing and potential clients for the purposes of ascertaining their specific project requirements and possible GIS needs.
- Upon completion of municipal client datasets, implemented the GIS system within local governmental offices, and instructed or trained municipal employees in the use of specific GIS software packages. Additionally served as the clients' technical advisor and software support.
- Established contracts with vendors and consultants for the purposes of data development, and worked directly with them in order to assure the highest standards in the area of quality control.
- Worked directly with the Executive Vice-President and department managers in developing target markets and approaches for the purposes of marketing the company and the individual technologies or services.

**GANNETT FLEMING INCORPORATED, Camp Hill, Pennsylvania****2006 - 2007*****Lead GIS Analyst, Project Manager***

Responsible for the coordination of all GIS activities, and the development and integration of the GIS technology into the Community Planning, Transportation Planning, Site Remediation, and Environmental departments of the Environmental Planning and Management Practice group.

- Ascertain current GIS needs and level of expertise required for department personnel to meet project and or departmental requirements, and structure the training of personnel in order to meet and achieve those needs.
- Coordination of the GIS element for all projects and activities that may require data development, analysis, and cartographic output.
- Determine the accuracy and type of GIS information needed for all new projects and proposals, included in this is the defining of tasks and the estimation of project hours.
- Compose the GIS section for all proposals generated by the Environmental, Planning, and Management Practice groups.
- Establish and lead the new GIS users group.
- Manage and execute all aspects of data development, conversion, and updating of project datasets, and perform various levels of analysis as required by the individual project managers
- Work with the ArcGIS extensions 3D and Spatial Analyst for the creation of specific project datasets as well as the development of high quality presentation maps and graphics for projects, proposals, and meetings.

**HOCKING COLLEGE, Nelsonville, Ohio****1998 - 2001*****Instructor***

Primary responsibilities were in the structured classroom and field instruction of students in the areas of GIS and GPS; classes taught covered the full scope of GIS and GPS courses offered within the curriculum. The educational level of courses ranged from the introductory to the advanced with an emphasis focusing on the "hands-on" approach.

- Managed 2 GIS/GPS labs and maintained each of the labs 20 computers including all hardware and software upgrades and installations. Additionally obtained cost quotes and ordered all new GIS, GPS hardware and software.
- Advised students in regard to careers within the GIS industry as well as scheduling courses.
- Served as project coordinator for student internships and GIS projects.
- Functioned as the Technology Coordinator of which the responsibilities associated with this position included the scheduling of all GIS courses, GPS courses, and faculty for each quarter. In addition conducted weekly technology meetings with colleagues to discuss any faculty and/or students needs.
- Modified existing courses within the curriculum in order to keep current with industry standards and technology, and developed new GIS courses with specific applications within specialty areas.

**SENATE ENGINEERING COMPANY, Pittsburgh, Pennsylvania****1998*****GIS Manager***

Challenged to develop and coordinate the GIS department for Senate Engineering Company.

- Recommended and purchased all GIS software for the company.
- Wrote and submitted all GIS project proposals.
- Met with municipal clients to discuss their specific needs and project requirements, and worked with company engineers to design and develop new GIS systems for individual municipalities.
- Upon completion of the project data, implemented the GIS system within the municipal offices. Additionally trained clients in the use of the MapInfo and ArcView software packages and served as their technical advisor and software support.
- Established contracts with vendors for the purpose of GIS data development, and worked directly with them in order to maintain the highest level of data accuracy.

**MUNICIPAL MAPPING SERVICES INC., Grove City, Pennsylvania****1997 - 1998*****Director of Operations***

Responsible for the daily operation and coordination of company activities.

- Maintained company hardware and software, this included the evaluation of new GIS software packages in order to meet the demands of clients with unique applications.
- Met with potential clients to discuss GIS needs and specific requirements.
- Wrote and submitted project proposals.
- Complete development and implementation of GIS systems for local municipalities and authorities.
- Training of clients in the use of GIS software packages, and serve as technical support.

**DEPARTMENT OF GEOGRAPHY & REGIONAL PLANNING,  
Indiana University of Pennsylvania, Indiana, Pennsylvania****1996*****GIS Lab Technician***

Maintained the GIS hardware and software within the Department of Geography and Regional Planning.

- Assisted professors in the evaluation of various GIS software capabilities. Included with this was the occasional completion of student class assignments for instructors, the purpose being to identify potential problems with the software or data sets.
- Assist the students in the use of the various GIS software packages used in the GIS and Cartography classes.

**SPATIAL SCIENCE RESEARCH CENTER, Indiana, Pennsylvania****1995 - 1996*****GIS Technician***

Initial responsibilities consisted of editing maps for the Pennsylvania One Call System Incorporated.

- Additional duties were project specific for municipalities within Pennsylvania:
- *Creation and customization of the GIS for the Huntingdon County Planning Commission* - This involved the creation of a multi-purpose cadast for parcel-based analysis, and the correction of the county's existing data sets.
- *Assisted in the development of the Cranberry Township GIS* - Project involved the creation of a land use database for the purpose of parcel inventory and land-use.
- *Completion of the GIS for the City of DuBois* - This was a grant-funded project that required the creation and completion of a citywide database. Included within this database were layers consisting of infrastructure, zoning, land-use, recreation, topography, and numerous additional data layers as required by the in-house City Engineer.

**CABOT OIL & GAS CORPORATION, Pittsburgh, Pennsylvania****1989 - 1995*****Gas Measurement Supervisor***

Responsible for the supervision of Cabot Oil and Gas's Integration Department, and coordinated the activities of the Gas Measurement Department.

- Monitored the daily production and data entry of volumetric information for over 2000 oil and gas wells and meters.
- Allocated monthly gas volumes to individual wells and meters based upon utility company sales volumes.
- Tracked and resolved gas production volume discrepancies.
- Prepared and balanced monthly utility company volume statements.
- Interfaced with engineering, accounting, and field offices in providing and receiving measurement information in order to meet company production deadlines.
- Aided in the design and installation of the following gas measurement\accounting programs and databases:
  - Cabot internally designed gas volume calculation and allocation system.
  - The BMP Gas Measurement System - used specifically for gas volume calculations.
  - The Oilfield Workstation - designed to allocate and maintain gas volumes.

***Engineering Technician***

Provided technical assistance for the Engineering Department.

- Gathered and evaluated geologic, volumetric, and gas well data.
- Developed and served as database manager for the Aries system which maintained well

production data and allowed for the economic modeling of gas wells.

- Worked with the software package, GeoGraphix for creating geologic maps for use by engineers.
- Assisted the individual engineers with various projects. Additionally designed and developed projects that were for interdepartmental use.

### ***Geologic Technician***

Performed numerous geo-technical duties for the Geology Department.

- Interpreted well logs, analyzed formations and depth determinations for company well files and the Department of Environmental Resources reports.
- Created geologic formation well logs cross sections.
- Worked with core samples and well cuttings for formation analysis and the creation of Petrologs.
- Cartographic activities included the preparation well location and lease maps as well as various subsurface geologic maps.

## **CNG DEVELOPMENT COMPANY, Pittsburgh, Pennsylvania**

**1988 - 1989**

### ***Geologic Draftsman***

Updated CNGD well location maps, lease/property maps, and pipeline maps with locations and all other required information. This process involved working with hard copy well plats, lease contracts, as well as pipeline location plats, and siting the locations on mylar maps.

- Calculated property acreage through the use of a planimeter and utilized the company's land/lease management system in order to ascertain accurate information concerning the locations of company and competitor holdings.
- Designed and drafted projects based on the specifications of individual Geologists and Engineers.

## **ADIRONDACK ASSOCIATES, Clifton Park, New York**

**1987 - 1988**

### ***Cartographer***

Assisted in the design and creation of regional and local advertiser maps for area Chambers of Commerce.

- Met with the individual advertisers and chamber members to determine specific project requirements.
- Developed map and add layouts to meet all advertiser and client requirements.
- Gathered and interpreted source maps, aerial photographs and additional data in order to provide the client with maps of the highest degree of accuracy.

## **CONSULTING SERVICES**

### **MCNIC OIL AND GAS CORPORATION, Detroit, Michigan**

Initially performed various cartographic duties and assisted drafting personnel.

- Installed the AutoCAD Map software package and converted existing data sets for use within the package.
- Linked the MCNIC investors' external database to a regional counties data set for the purpose of creating thematic maps.
- Assisted in the creation of promotional document/presentation outlining the advantages of GIS within the oil and gas industry to MCNIC management.
- Created a detailed technical users guide to be used with AutoCAD Map.

### **CITY OF DUBOIS, DuBois, Pennsylvania**

GIS consultant for the City of DuBois.

- Responsible for the coordination, development, and implementation of the new City GIS system for the City Engineering department, this also included the ArcGIS training of City personnel.

### **BUTLER COUNTY PLANNING COMMISSION, Butler, Pennsylvania**

GIS consultant for the Butler County Planning Commission.

- Conducted meetings with the Butler County Commissioners and County personnel in order to determine individual departmental GIS needs and specific applications, and worked to outline the necessary strategy for a smooth integration of the new system into those departments.
- Established budgetary parameters for the various GIS activities and made software recommendations based upon anticipated uses and applications within the individual County departments.
- Obtained and converted all digital datasets for incorporation into the new developing system, and made arrangements with vendors for additional data creation. Additionally developed all base map layers through the use of various GIS and CADD software packages.
- Worked with the Southwest Regional Planning Commission, local engineering firms, and municipal authorities to establish and maintain data sharing agreements.
- Designed and created a pilot project using the townships of Clinton and Buffalo as part of a joint comprehensive plan.

### **SLIPPERY ROCK MUNICIPAL AUTHORITY, Slippery Rock, Pennsylvania**

GIS consultant for Slippery Rock Municipal Authority.

- Performed data creation and updates for the municipal sewer and water systems.
- Trained municipal personnel in the use of GPS equipment and instructed in the use of MapInfo.
- Directed and was responsible for the conversion of all GIS datasets from the MapInfo format into the ArcGIS format.

## **PROFESSIONAL AFFILIATION**

THE PENNSYLVANIA GEOGRAPHIC ALLIANCE  
GAMMA THETA UPSILON, - International Geographical Honor Society

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## **PUBLICATIONS**

Editorial Assistant

**Technology, Landscape, and Arrested Development: essays on the geography of marginality.** ed.  
Vincent P. Miller, Jr. Indiana University of PA, Indiana, PA 1997

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## **SOFTWARE EXPERIENCE**

**GIS software:** ArcGIS 9.2, ArcView 3.3, MapInfo 9.0, AutoCAD 2007, Autodesk Map 3D 2006, Microstation. ArcGIS Extensions: Spatial Analyst, 3D Analyst, Network Analyst.

**GPS hardware/software:** Trimble GeoExplorer 3, Pro XR, Pathfinder Office.

**Oil and Gas industry software:** The Oilfield Workstation (TOW), BMP gas measurement software, GeoGraphix, Aries engineering/economic database.

**Remote Sensing software:** MicroMSI, Idrisi

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## **REFERENCES**

Excellent references available upon request.