PATRICK R. WILD

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Summary

Patrick Wild is a geographer who employs a broad range of technical skill in GIS, Remote Sensing, and Cartography. Patrick is in search of full time, or contract positions that will exercise his knowledge of applied geography while providing direction in skills acquisition and career advancement.

Qualifications

- Adept in the collection, organization, analysis, and display of spatial data.
- Presents and displays complex information through written, oral, and graphic communications.
- Works well autonomously and in collaborative environments.
- Attention to detail at all levels.
- Exceptional organizational and task prioritizing skills.

Technology and Software

Geospatial:

- Working knowledge of ESRI ArcGIS 9.x/10 Desktop (ArcMap, ArcCatalog, ArcScene); ability to perform intensive geo-processing, advanced analytic and complex cartographic tasks; ability to instruct new users in basic geo-processing, analysis and cartographic tasks.
- Strong Experience with ESRI ArcGIS Desktop Extensions; experience using 3D Analyst and Spatial Analyst, knowledge of Geostatistical Analyst and Network Analyst.
- Experience with ArcGIS Server; capable of publishing maps to the web in a variety of formats, basic understanding of configuration and permissions.
- Proficient with ERDAS Imagine and ENVI; ability to compile complex scripts and models in native language for image analysis.
- Experience with GDAL/OGR open source software; ability to write scripts for geoprocessing using PYTHON and FWTools shell.
- Knowledge of GRASS open source GIS; basic understanding of data model and the ability to construct databases.

Operating Systems:

- Excellent Windows skills, including DOS, XP, and 7.
- Proficient with UNIX/LINUX type operating systems; ability to navigate and mange files in command line environment.
- Proficient with Mac OS.

Coding & Scripting:

- Knowledge of SQL; extensive use of ESRI Query Builder, basic understanding of SQL syntax.
- Knowledge of Python; basic understanding of syntax, ability to write geo-processing scripts.
- Experience with HTML and CSS; ability to code basic websites with CCS styling.
- Experience with VBA; proficient using VBScript for database maintenance, knowledge of VBA for geo-processing.
- Experience with JavaScript; proficient using JScript expressions used in database maintenance, implementation of OpenLayers JS library for the delivery of web-maps.
- Experience with XML; styling map tiles and managing metadata.
- Experience with XSL; HTML popup styling.

Design:

- Experience with Adobe Illustrator; cartographic edits and the creation of hard-edge graphics.
- Experience with Adobe Photoshop; image analysis and manipulation of map graphics.
- Knowledge of Adobe Dreamweaver; ability to create moderately complex websites.

Statistical:

- Strong user of MS Excel; statistical analysis using Analysis Toolpack, pivot tables, etc.
- Knowledge of MATLAB; basic understanding of software and implementation of statistical analysis.

Employment

GIS Specialist: Geospatial Consultants, Denver, CO (March 2010 - Present)
Responsible for the collection, management, analysis and display of data throughout project lifecycle.

BP America Production Company - Below Grade Tank Permitting, Southern San Juan Basin, NM
Organized, complilled, and submitted 2215 permits to the New Mexico Office of State Engineers, for below grade tanks on natural gas well pads.

- ESRI Model Builder for data creation.
- Exstensive use of Map Logic Layout manager for consitency in figure creation.
- Database creation and maintainence.
- Continued support: ongoing fullfillment of data and figure requests.

BP America Production Company – Environmental Risk Assessment, Hugoton Basin, Anadarko Basin, Permian Basin, Arkoma Basin
Performed analysis for each gas basin by defining spatial relationships between storage tanks and surface water, and groundwater features to calculate risk metric.

- Exstensive data collection from federal and state agencies.
- Raster interpolation to approximate groundwater surface.
- High quality Cartographic output.

XCEL Energy - Cellulose Acetate Butyrate (CAB) Replacement Database
Created database for the management of locations needing CAB replacement.

- File geodatabase design and implementation.
- Methodoloy for the digitization of paper forms updating database.
- Published map to cloud using ESRI ArcGIS Server.
- Customization of HTML popups using XSL.

IRIS Mitigation and Design – Willow Creek Wetlands Deliniation
Suburban wetlands delineation.

- Georefrencing CAD drawings and updating maps.

GIS Specialist (Contract): AvalancheMapping, Boulder, CO (February 2010 - Present)
Database maintenance as requested.

Colorado Statewide Avalanche Database for CAIC & CDOT.

- Used VBA expressions to join fields in an existing spatial database to create URL links for weather station data.

GIS Analyst Intern: Texas General Land Office, Austin, TX (September 2007 - May 2008)
Supported internal organizations with spatial analysis and cartographic production.

- Analysis of Datum based Mean High Water Line depicting the Dune Protection Line for the town of South Padre.
- Entering point locations of Federal Consistency Projects: Ongoing recordkeeping duty. Point features added to a spatial database as requested using ArcInfo Workstation.
- Used historic aerial photos to identify and map human activities helping to establish prior use on the gulf shore beaches of South Padre Island.
- Calculation of beach sand volume subject to removal for parcels in the town of South Padre.

Education

Bachelor of Science - Geographic Information Science
Texas State University-San Marcos, San Marcos, TX (Graduate Cum Laude, 2009)
MAPSCO – Undergraduate Award of Excellence in Geography, Spring 2007.

Relevant Coursework:
- Advanced Cartography
- Advanced GIS I
- Advanced GIS II
- Digital Remote Sensing
- Transportation Systems
- Urban & Regional Economics

University of Colorado at Boulder-Boulder, CO (Economics Major, 2003-2005)

Relevant Coursework:
- Maps & Map Making
- Multimedia Cartography
- Introductory GIS
- Principles of Remote Sensing
- Population Geography
- Environmental Economics
- Geomorphology