

NAME

Address

Telephone

Email

Education

University of Pennsylvania, USA

Master of Urban Spatial Analytics

20XX

University of Cincinnati, USA

Bachelor of Science, Major in Geography

20XX

Sun Yat-Sen University, China

Bachelor of Science, Major in Geographic Information System and Remote Sensing

20XX

Working/Internship Experience

Research Fellow, Council President's Office, Philadelphia City Council, USA

20XX-present

Served the Council with various GIS projects related to demographic data, voting, vacant properties, tax delinquency, etc;

Served the Council with GIS cartography and web maps in Arcgis Online;

Database analysis and data-mining in Excel and Access.

Technical support of other council offices regarding GIS software installation, operation and analysis.

Student Trainee, GIS Services Group, Office of Innovation and Technology, City of Philadelphia, USA

20XX

Completed the analysis of solar potential index in a pilot area in North Philadelphia;

Designed a poster for our data Vendor CyberCity 3D about the Philadelphia solar roof potential index for the ESRI International User Conference 2012;

Presented the solar project in 2012 Philadelphia Mayor's Internship Program and 2012 Esri Mid-Atlantic User Conference;

Assisted other department with software installation, maintenance and training.

Research Projects

"The Analysis of Solar Potential Index in Philadelphia"

20XX

A solar roof potential analysis of Philadelphia buildings would assist home owners and businesses in assessing whether their property was well suited for a solar project. Vendor, CyberCity 3D, delivered an articulated roof model for a 3 square mile pilot area of lower North Philadelphia, which included roof attributes of available area, pitch angle and solar azimuth. This dataset allowed us to develop a Solar Roof Potential based on the most opportune conditions for solar projects. The potential index was calculated for each roof feature of the pilot area and symbolized from based on the score. The results were made available internally for review on an ArcGIS Online Interactive map that allows users to search for the solar potential index of a specific roof feature. The finds were shared with Philadelphia's Office of Sustainability for review which prompted re-evaluation of the index to improve the accuracy.

"New Store Location Model for Sam's Club"

20XX

Building a new store location model with Business Analyst Extension of ArcGIS will assist Sam's Club to choose where to expand their business. The model is based on the demographics around each existing stores in Pennsylvania by using a driving time analysis, then determining the segmentation profile target group which Sam's Club should attempt to locate near, a competitive analysis indicates the direct and indirect competitors, and a market analysis based on market surplus and leakage of grocery sales in Pennsylvania. Finally, an existing shopping center in that market was picked to locate the new store.

"The WebGIS Application of Finding the Closest Gas Station in Cincinnati"

20XX

The WebGIS Application is written in HTML and JavaScript on Flex platform with two ArcGIS APIs: "Geocoding an address" and "Closest Facility". By typing an address on the User Interface, the application will load the gas station data saved on the server and generate the route(s) as well as estimated travel time to the closest gas station(s).

"Analyzing the Bearcats Transportation System around UC Campus"

20XX

The Bearcats Transportation System (BTS) is a shuttle service with seven routes launched by the University of Cincinnati (UC) to facilitate the students in commuting from the residential neighborhoods to the Main Campus. The safety and efficiency of BTS attract our attention after the analysis of the schedule and routes of the shuttles with student density and crime data around UC Campus. We successfully improved the shuttle system by relocation several bus stops in order to meet "Student Concern", "Efficiency Concern" and "Crime Concern" mainly with the function of network analysis.

Skills

GIS: ArcGIS Desktop Suite 10.X, ArcGIS Server, ArcGIS Online, Business Analyst Extension, Community Analysis Extension.

Programming: Visual Basic, C/C++, Python, HTML, JavaScript, GoogleMap API, Flex.

Statistics: Excel, SPSS, JMP, Matlab.

Others: Adobe Illustrator, Excel, SPSS, JMP, Matlab.
