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GITHUB BRIANBANCROFT

BRIAN BANCROFT, CD, BSC

CURRENT CAREER GOAL

To find a comfortable, yet highly-challenging role in solving problems.

RELEVANT WORK EXPERIENCE

October 2014 – March 2016

Field Controller, Sight Surveillance

Field-based mapping, tracking command-and-control/dispatch and radio management

- Created daily-changing operational maps for an oil and gas projects using ArcGIS
- Worked alone to maintain and troubleshoot to a radio network of over 80 radios used by field operators in a Winter Drilling environment
- Tracked, monitored and carried out analysis on individuals using a real-time GPS position feed provided from the above radios
- Created the new company website using Wordpress

April 2014 – September 2014

Customer Support Representative, Optech

Hardware QA position

- Carried out QA and analysis on LiDAR data produced by company systems using GIS software including Bentley Map
- Created scripts through Python to assist in the QA Processes

January 2014 – May 2014

University of Ottawa, Geographical Statistical and Government Center, Moriset Library

Library Technician (Temporary contract)

Front-end client service and support for library users, special projects in support of subject librarians

- Automation of large-scale georeferencing and file preparation for online distribution using Python
- Troubleshooting, mentoring and offering advice with students and staff on GIS-related topics
- Assistance with students and university staff in seeking and acquiring data through multiple sources

January 2013 – December 2013

Volunteer: Laboratory for Applied Geomatics and GIS Science

Remote sensing, GIS and research

Worked under the supervision of Dr. Sawada to carry out a thesis-like project towards the research of a doctorate candidate

- Used ArcGIS 10.1 and Python to create a volumetric estimate of swimming pools as alternate water sources in event of loss of fire hydrants for emergency decision framework
- Used a combination of supervised classification of high-resolution aerial photography and location-based rules based on municipal zoning, distance from roads and other factors to discern between swimming pools and objects which looked like swimming pools

November 2012 – September 2013

Natural Resources Canada (FSWEP)

Geophysicist's Assistant

Carrying out research and field tasks under direct supervision of a researcher

- Magnetotelluric modeling, writing results and providing advice based on results
- Drafting and submitting results successfully through a peer-review process (Open File 7549)
- Created maps for navigation, documentation, and survey site proposal using GIS software

EDUCATION

March 2016 – May 2016

Lighthouse Labs: Web Development

Relevant subject matter taught:

- Back-End Development using Ruby-on-Rails, Sinatra
- Front-End Development and Design: JS, CSS, JQuery, Bootstrap, and Libraries

September 2009 – December 2013

University of Ottawa: Hon B.Sc Maj Physics Maj Geomatics

Relevant subject matter taught:

- Principles of Cartography, use of the ArcGIS suite and most extensions
- Basic overview on databases, including queries through SQL
- Geoprocessing in ArcGIS through tools, modelbuilder, ArcObjects and ArcPy
- Geostatistics, Calculus, Linear Algebra
- Basic overview of Geomorphology, Geology, and Geophysics
- Geographic research towards an thesis-like project
- Natural Resource Management and Impact Assessments

SKILLS AND EMPLOYABILITY

- Competence in computer applications including LaTeX, LabView, MatLab, R
- Experience with Postgres, MS-Sql and SQLite3
- Intermediate-Level programming using Ruby, JS, Python, VBA
- Basic Web GIS - Mapping, Geolocation, Interaction through AJAX
- Has held a Level III Top Secret security clearance

AWARDS AND CERTIFICATION

- ESRI Desktop Associate Certification, 2016
- Canadian Forces Decoration, 2013
- ESRI Canada Student Scholarship Award, 2012
- Chief Scout's Award, 1999

REFERENCES

References available upon request