

EMILY GILLIS

BSc Geology, BGIS Student

DETAILS

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GIS HIGHLIGHTS

Practicum Project: Migration to ArcGIS Utility Network

Investigated three major concepts used in G/Technology software for imminent migration to the Esri environment – asset life cycles, connectivity tracing, and asset feature management. Made use of arcade scripting in attribute rules and attribute-driven symbology to minimize differences between platforms.

Capstone Project: Electrical Utility Asset Management

Problem: Enhancing asset liability indices with damage potential from wildfires.
Process: Design and automate a predictive model for assigning a fire damage risk index based on fuel characteristics, slope, and historical weather patterns with accompanying Operations Dashboard for field monitoring.

GIS INTERESTS

Multi-spectral Image Analysis – investigate the applications of remote sensing indices to real-world scenarios and problems using ENVI and ArcMap

Cartography – create informative and visually appealing maps and stories, apply traditional cartographic methods to modern digital mapping platforms.

Geoprocessing – explore geoprocessing workflows to increase efficiencies, leverage geospatial analysis to identify and solve large-scale problems.

GIS SKILLSET

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|---|---|---|---|
|  |  |  |  |
| Web Maps & Dashboards | Geospatial Analysis | Python & Arcade | Arc Enterprise |
| Thematic Visualization | MS Image Analysis | G/Technology | Arc Online |
| Geospatial Statistics | Model Builder | ArcMap 10.x | Inkscape |
| Graphical Hierarchy | Map Overlays | ArcPro | Blender |
| Cartography | Automation | ENVI | GIMP |

PERSONAL QUALITIES

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|---|---|---|---|
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| Detail-oriented | Objective-focused | Builds Relationships | Stays Prepared |
| Problem Solver | Multitasker | Collaborative | Committed |
| Critical Thinker | Organized | Accountable | Punctual |
| Active Learner | Initiative | Supportive | Flexible |

EDUCATION

Southern Alberta Institute of Technology (SAIT)

2020 – Present

Bachelor of Applied Technology, GIS

Current GPA – 4.0, expected graduation date Dec 2021

University of Calgary

2004 – 2009

Bachelor of Science, Geology

WORK HISTORY

May 2021 - Present

FortisAlberta Inc.

Data Integrity and GIS Student

- Performed edits in G/Technology electrical model; migrated large ArcMap projects into ArcPro projects through python scripting and automation processes.
- Completed internal and external Map and Data Requests involving various geoprocessing workflows and data compilation.
- Explored ArcGIS' Utility Network capabilities to assist with early-stage migration efforts

September 2021 - Present

Southern Alberta Institute of Technology

BGIS Program Tutor

- Hosted weekly online drop-in sessions to assist BGIS classroom and online students with key concepts and course content.

2017 – 2020

Chinook Consulting, Cabra Consulting

Geosteering Specialist

- Real-time Geosteering; multi-well data analysis and interpretation, regulated data management.

2015 – 2017

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Owner

- Designed, developed, and managed a small retail business designing live plant terrariums; led workshops and attended conventions.

2009 – 2015

EOG Resources Canada Inc.

Geologist

- Lead Geologist for development oil play; performed rock analysis, subsurface mapping, analysis, and interpretation; managed the drilling of over 300 wells.

--- References available upon request ---