

# Kyler McLachlan

4708 Normandale  
Highlands Drive  
Minneapolis, MN  
(612)-600-8781  
Kyler.mclachlan@gmail.com



## EXPERIENCE

### **Polaris Inc, Plymouth — GIS Technician Jr.**

DECEMBER 2019 - Present

Provides discovery on finding public GIS data sets that apply to overall program goals. Performs GIS data manipulation, cleansing and analysis on a variety of data sets for import. Facilitates GIS data import from third parties to support program goals. Coordinate trail data update cadence. Upholds quality standards of GIS data implemented into the program. Fields requests from Trail Ambassador team on GIS related knowledge. Performs geospatial analysis for business purposes as needed.

### **Xcel Energy, Minneapolis — GIS Technician II**

SEPTEMBER 2019 - Present

Performs edits on gas, electric and landbase facility information Companies Enterprise GIS. Data updates performed utilizing GE Smallworld GIS software and SAP work and asset management software, following QA/QC processes to ensure data integrity for advanced downstream applications. Focusing on general data integrity and GIS maintenance work in order to improve data accuracy and reliability.

### **City of Rosemount, Rosemount — GIS Intern**

May 2019 - PRESENT

Collected and entered geospatial and attribute data in the office and field with GPS, ESRI ArcGIS, and asset-management hardware, software, and mobile applications. Created, edited, and updated features in geodatabases and shapefiles. Scanned and related plans, manuals, etc. to GIS assets. Performed a variety of other work related to the operation and maintenance of the City's GIS, GIS applications, and asset management systems. Developed automated tasks to streamline city processes. Read and interpreted legal and architectural documents.

## EDUCATION

### **University of Minnesota, Minneapolis— B.S. Geography, GIS minor.**

SEPTEMBER 2015 - MAY 2017

Advanced GIS, Remote Sensing, Numerical Spatial Analysis, Oceanography, Geocomputing, Cartography, Eastern Asia.

## SKILLS

Python, SQL, Database Management

Fluvial Geomorphology, Wetland evaluation, Climate Analysis, Geocomputing

Field Research, Data Analysis, Program Evaluation, Policy Creation, Data Entry.

Arcgis Pro, IDRISI, Quantum GIS, ECOGNITION, SPSS

## LEADERSHIP

Resident Hall Association Delegate

RHA Liaison, QBP Trainer

Sutherland Council Member

N & M Zetterberg Scholarship Recipient

## SOFTWARES

Microsoft: Office, Word, Excel, Powerpoint, Teams.

Adobe Indesign, Google Suite, Blender, Google Ads Certified.

Arcgis, IDRISI, Quantum GIS, ECOGNITION, SPSS.

## PROJECTS

### **Three Dimensional Model Creation Through Remote Sensing – *Conservation Biology Master's Thesis.***

Assisted on the GIS segments of a classmates Master's thesis. Performed research on qualitative and quantitative LIDAR classification methods. Experimented with various programs on ECOGNITION software.

### **TEDx — *Sustainable Systems Lectures.***

Core objectives were capturing 90% of the events waste stream and maintaining operational efficiency. Organized the planning and execution of a zero-waste TEDx program. Served as communication and information hub between vendors, event staff, and drivers. Attendance marked as 1500+.

### **Bee Research Laboratory – *Recycling program creation and evaluation.***

Developed a recycling infrastructure suited for the unique needs of an experimental apiology building. Worked with researchers, builders, architects, custodial, and management to ensure the compliance and satisfaction of all parties. Focus was on capturing as much reusable material as possible during the building's construction and continuous operation. Building reached 90% recovery rates.

### **Geocomputing Gerrymandering – *Creation of gerrymandered maps through geocomputing principles and programs.***

Team based research focused on the development of a program that takes congressional district population data and manipulates district borders to create gerrymandered maps. Primary personal responsibilities included: creating objectives and respective timelines, delegating tasks to team members, soundboarding and brainstorming with primary programmer, and creating a spatial statistics algorithm.

## SOFTWARES

Microsoft: Office, Word, Excel, Powerpoint.

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