ALEX MACHIN-MAYES

GIS ANALYST

(360) 527-6216

Bellingham, WA 98225

[alexmachinmayes@gmail.com](mailto:alexmachinmayes@gmail.com)

[LinkedIn](https://www.linkedin.com/in/alexmachinmayes/) | [Portfolio](https://alexmachinmayes.github.io/)

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PROFILE

Self-driven GIS Analyst with over six years of professional experience and wide-ranging knowledge of GIS technologies. Proficient with Esri products and services, geospatial analysis, cartography, geodatabases, GPS data collection, and web mapping. Critical thinking with attention to detail, resourceful and collaborative, and continually learning new skills and tools.

SKILL HIGHLIGHTS

ArcGIS Pro ArcGIS Collector Data Formatting ArcGIS API for JavaScript

ArcGIS Online Model Builder/ArcPy Writing/Reporting Trimble Pathfinder Office

ArcGIS Desktop QGIS Adobe Creative Suite HTML/CSS

WORK EXPERIENCE

**GIS Consultant** **03/2019****–Present**

*Falcon Cultural Resources | Burlington, WA (Remote)*

* Utilize open-source GIS and services to build professional cartographic products.
* Provide historical and ecological context using aerial, LiDAR, and topographic imagery.
* Support GPS data collection, processing of field data, and site mapping for archaeology reports.
* Conduct viewshed analysis to visualize prominence of proposed development.

**GIS Property Specialist** **11/2014–08/2017**

*Swinomish Indian Tribal Community | La Conner, WA*

* Collaborated with specialists, project managers, and field technicians in the design and development of database schemas and GPS data collection interfaces.
* Managed GIS data within the Planning Department system, providing maps, analysis, data entry, technical support, database management, and data publishing to ArcGIS Online for interdepartmental use.
* Led field training on GPS data collection using ArcGIS Collector, Trimble GPS/GNSS receivers, and AGOL.
* Contributed to building complex databases of government assets and features, including natural and cultural resources, zoning, parcels, buildings, roads, and utility data.
* Migrated data from ArcSDE into AGOL and the Esri Local Government Information Model.
* Produced maps and property updates through research, interpretation of land surveys, as-builts, legal property descriptions, and assessor records.

**GIS Technician/Consultant** **11/2012–11/2014**

*Independent Contractor | Bellingham, WA (Remote)*

* Conducted research, analysis, database development, digitization, and mapping for projects involving forest roads, ecological studies, oil train transfer hubs, and hydrology.

EDUCATION

**Master of Science in Cartography and Geographic Information Systems**

*University of Wisconsin-Madison, 2021 | Madison, WI (Remote) | 4.0 GPA*

**Bachelor of Arts in Human Geography** | **Minor in Geographic Information Systems**

*Western Washington University, 2012 | Bellingham, WA*