ALEX MACHIN-MAYES

GIS ANALYST

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PROFILE

Self-driven GIS Analyst with over seven years of professional experience and wide-ranging knowledge of GIS technologies. Proficiency in Esri products and services, geospatial analysis, cartography, geodatabases, GPS data collection, and web application programming. A resourceful critical thinker with attention to detail, excellent communication, self-sufficiency, and the drive to continually learn new skills and tools.

SKILL HIGHLIGHTS

ArcGIS Pro QGIS/GRASS Data Formatting ArcGIS API for JavaScript

ArcGIS Online ArcGIS Collector Writing/Reporting Trimble Pathfinder Office

ArcGIS Desktop Model Builder/ArcPy 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.
* GPS data collection support, processing of field data, site maps and shapefiles 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*