

Benjamin Stabley

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Objective: GIS Analyst or other suitable position

Portfolio: <https://benstabley.work>

Highlight of Qualifications

GIS

- Familiar with ArcGIS Pro, QGIS, and GIS concepts such as coordinate reference systems, vector and raster formats, geodatabases and other formats, and a variety of geoprocessing tools for geometric manipulation, summarization, conversion, network analysis, and multidimensional datasets
- Data engineering using height, indices, other derived information; cleaning using morphological tools
- Classification of remotely sensed imagery using rule-based, unsupervised, supervised, and mixed techniques
- Some use of ENVI and Google Earth Engine
- Operation of DJI platform: Mini, Mavic, Phantom, Matrice
- Agisoft Metashape for photogrammetry, digital twins, volumetric calculations, point cloud classification
- Use of GCPs for georeferencing and accuracy, PPK
- Deriving products such as DSM and DTM from photogrammetry and LiDAR
- Understanding of GNSS systems and their strengths and weaknesses in data collection
- Field data collection using Field Maps, Quick Capture, and Survey123
- Foundations of OR property law, land division systems (DLC, PLSS, plats), prorating excess and deficiency appropriately among lots, reading legal and metes and bounds descriptions, simple drafting in AutoCAD Civil 3D

Programming and Data Analysis

- Languages: Go, Python, JavaScript, SQL, HTML/CSS, C#, C++, HLSL, Dart, shell scripting, LaTeX
- “Full stack” development of small purpose-built desktop and web applications
- Git and GitHub for revision control
- Arcpy for stand-alone scripts, script tools, and complete toolboxes in ArcGIS Pro
- Jupyter Notebooks, Pandas and Geopandas, Matplotlib, Seaborn to analyze and visualize data
- Simple machine learning models (linear and logistic regression) with Scikit-learn
- Computer vision, object detection, and segmentation packages such as OpenCV, EasyOCR, YOLOv8

Teamwork and Leadership

- GIS Club President 2023-24, Member 2022-23: coordinate projects, workshops, guest speakers, regular meetings
- Collaborate with non-GIS people such as artists, academics in other fields, facility managers, historians
- Similar past roles: Mazamas, ICS committee member; Obukan Kendo Club, president; RIT Kendo Club, president

Education

GIS Certificate – Portland Community College – expected June 2024

Geospatial UAS Specialist Certificate – Portland Community College – December 2023

BS in Environmental Science – Rochester Institute of Technology – 2010

Relevant Experiences

Freelance Webmaster and Designer for Outdoor Illumination of North Carolina, Wilmington, NC – 2011 to 2018

Furin Project, GIS Club Collaboration Project Lead, Portland, OR – January to May 2023

FAA Remote Pilot – Certificate number 4891976 – September 2023

Conferences and Presentations

“Seasonal Snowline Fluctuations on Mt Hood” lightning talk – GIS in Action – April 2024

“Student Hot Shots” lightning talk – GIS in Action – April 2024

“Capturing Community” – Symposium for Furin Project – May 2023

Work History

Melter – Bullseye Glass Company, Portland OR – 2013 to present

Cook –Uwajimaya, Beaverton, OR; and Nike Campus, Beaverton, OR – 2011 to 2013

Assistant Language Teacher – Chibu-mura Middle School, Japan – 2007 to 2010

References and academic transcripts available upon request.