

# Jay Monk-Baumann

GIS Analyst

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## Professional Summary

GIS Analyst with 4+ years' experience supporting utility and government mapping programs through production of imagery and spatial data. Skilled in ArcGIS Pro, SQL queries and Python-supported automation to perform data conversion, geoprocessing and quality assurance. Experienced in coordinating technical deliverables and training team members. Leveraging a diverse background in GIS, philosophy and permaculture design, I bring a unique systems-thinking approach to solving geographic problems in urban development, utility infrastructure and environmental policy.

## Technical Skills

**Software & Platforms:** ArcGIS Pro, ArcMap, QGIS, Global Mapper, Microstation, Inpho Applications Master, Adobe Photoshop

**Languages & Methodologies:** Python for ArcGIS automation and geoprocessing, SQL attribute queries, QA/QC, troubleshooting data integrity, photogrammetry and spatial database management.

## Work Experience

**GIS Analyst / Senior GIS Technician**

**NV5 | Portland, OR**

**June 2022 – May 2026**

*(Promoted to Analyst in 2025 following three years of high-performance technical execution)*

**Rigorous QA/QC:** Produced and validated geospatial deliverables supporting utility right-of-way and government mapping contracts. Selected by leadership to handle complex AOI deliverables due to consistently high quality and attention to detail. Performed QA/QC against client specifications.

**Photogrammetry & Imagery Processing:** Processed remotely sensed and ground survey data using photogrammetric methods to generate accurate orthoimagery over right-of-way zones.

**Satellite Imagery & GEOINT Feature Extraction:** Analyzed GEOINT and imagery data to identify features of interest, digitized and attributed following strict standards for client requirements in scale, topology and attribution. Supported government and utility contracts and managed controlled unclassified information under strict compliance standards.

**Workflow Automation & Efficiency:** Utilized ArcGIS and python automation tools to streamline geoprocessing tasks, significantly increasing workflow efficiency on my production team. Developed a graphic to demonstrate methodology for batch processing using NV5 and native Esri tools and communicate this with colleagues.

**Technical Leadership & Tool Development:** Spearheaded a development initiative by identifying a workflow gap and submitting a tool enhancement ticket; led a cross-functional team of developers and technical specialists through pre-release testing phase to optimize tool functionality and integration.

**Interdisciplinary Teamwork:** Partnered with subcontractors, project managers, and internal teams to coordinate deliverables and ensure on-time execution of client contracts.

**Software Migration & Training:** Authored technical documentation and led internal ArcGIS Pro training workshops.

## Certifications

**Remote Pilot Certificate, Part 107**

April 2023 to Present

Qualified to execute commercial drone operations. Able to support mission planning and operations for piloting, surveying GNSS ground truth air target points, maintaining visual line of sight (VLOS), and aerial data acquisition.

## Education

**Geographic Information Systems**

Portland Community College | Portland, OR  
January 2019 to December 2021

**Philosophy (Bachelor of Arts)**

Willamette University | Salem, OR  
August 2007 to May 2011

**Urban Permaculture Design**

Planet Repair Institute | Portland, OR  
October 2018 to May 2019