

Joshua J Serfass

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[Portfolio](#)

[LinkedIn](#)

Career Profile:

- Detail-oriented, efficient and organized professional.
- Possess strong analytical and problem-solving skills, with the ability to make well thought out decisions.
- Excellent written and verbal communication skills.
- Highly trustworthy, discreet and ethical.
- Resourceful in the completion of projects, effective at multi-tasking.

Education:

The University of Washington - Tacoma, Tacoma, WA

School of Urban Studies, Master of Science – Geospatial Technologies

Non-matriculated Student, GPA 3.95, Graduation Date: August 2023

The University of Washington - Tacoma, Tacoma, WA

School of Urban Studies, GIS Certificate Program

Non-matriculated Student, GPA 4.0, Graduation Date: March 2021

Oregon State University, Corvallis, OR

College of Forestry, Natural Resource Management

Post-Baccalaureate Student, E-Campus, GPA 3.70

King's College, McGowan School of Business, Wilkes-Barre, PA

Bachelor of Science Degree: Accounting, Graduation Date: May 2008

Work 40+hours a week while attending school full-time

Work History:

Washington State Department of Natural Resources | Tumwater, WA January 2025 - Present
Mission Sensor Program Specialist (Photogrammetrist 3)

- Serve as the senior lead for aerial intelligence operations, supervising Mission Sensor Operators (MSOs) and Photogrammetrists. Lead training, mentoring, and qualification programs for new MSOs; manage staffing schedules and ensure high standards for data collection and product delivery.
- Plan and execute pre-flight, mission, and post-flight activities using EO/IR, thermal imaging, mapping, and LiDAR systems. Operate and maintain handheld FLIR devices, aircraft-mounted sensors, and mission workstations to support natural resource missions and emergency operations.
- Provide Intelligence, Surveillance, and Reconnaissance (ISR) services utilizing full-motion video, multi-sensor equipment, and aerial data systems for agency partners, cities, counties, and federal agencies.
- Conduct Aviation intelligence gathering and database (SQL) management for Program Manager and Operations ADM.
- Host created feature layers and create digital map products in ArcGIS Online to support Aviation recon and suppression missions.
- Develop and enforce department standards for aerial data collection systems, including EO/IR cameras, downlink systems, and LiDAR, ensuring compliance with Aviation Operations Plans and Standards (AOPS). Oversee quality control, processing, storage, and distribution of intelligence products, working closely with GIS specialists and Incident Management Teams (IMTs).
- Serve as the primary department liaison to IMTs for photogrammetric project requests. Maintain and update EO/IR camera systems and operator stations, coordinating software and hardware updates with vendors.
- Aviation section subject matter expert on the use of the Enterprise Geospatial Portal (EGP), Automated Flight Following (AFF), LP360, and ESRI suite of products.
- Support Uncrewed Aerial Systems (UAS) operations as a certified observer/pilot. Collaborate with the UAS Program Coordinator to align drone and aircraft intelligence systems, minimize duplication, and standardize data practices across platforms.
- Serve as a Teledyne FLIR system operations expert for the Aviation section and conduct pre-season FLIR training for incoming MSO operators
- Serve in the Aviation Unmanned Aircraft System (UAS) program as both a pilot and data specialist (UASD) during fire season.
- Process geospatial and remote sensing/Lidar data for wildfire incidents.
- Assist in recurrent flight training, system upgrades, and policy development for aerial intelligence programs. Act as a subject matter expert in aerial data gathering, storage, and operational best practices.

Washington State Department of Natural Resources | Olympia, WA March 2023 - January 2025
Air Operations Automation Coordinator

- Develop and coordinate agency-wide intelligence and data for wildfire.

- Serve as the primary program coordinator for Helicopter, Fixed Wing, and UAS Operations for automation and digital maintenance support.
- Gather, process, and organize aircraft wildland fire information, reports, and data for the Program Manager and upper management.
- Conduct Aviation intelligence gathering and database (SQL) management for Program Manager and Operations ADM.
- Host created feature layers and create digital map products in ArcGIS Online to support Aviation recon and suppression missions.
- Coordinate with interagency partners to develop No Dip Site and No Retardant Zone layers for use by Aviation section pilots while on fire missions.
- Provide statewide automation support, training, and field support to Aviation personnel on ArcGIS Field Maps, Garmin Pilot, Avenza, Interra, and ArcGIS Pro.
- Reimagined the Aviation section aircraft cost tracking process and developed an aviation cost tracking web application (Microsoft Power Apps) to automate the aforementioned process. Additionally, maintain the accompanying SQL database, and produce weekly fire Aviation statistics and visual products for upper management and the Commissioner of Public Lands.
- Aviation section subject matter expert on the use of the Enterprise Geospatial Portal (EGP), Automated Flight Following (AFF), LP360, and ESRI suite of products.
- Serve as Mission Sensor Operator (MSO) in Aviation section Kodiak aircraft. Work with inter-agency partners to coordinate the preparation and distribution of Multi Mission Aircraft (MMA) mapping and imagery products.
- Serve as a Teledyne FLIR system operations expert for the Aviation section and conduct pre-season FLIR training for incoming MSO operators
- Serve in the Aviation Unmanned Aircraft System (UAS) program as both a pilot and data specialist (UASD) during fire season.
- Process geospatial and remote sensing/Lidar data for wildfire incidents.
- Serve on an inter-agency Type 2 Incident Management Team as GISS on fire assignments. Duties include creating multiple incident map products, obtaining GIS data from local resources, integrating data from various gps units (Collector, Survey 123, Avenza) and incorporating data into incident GIS, developing, updating, and maintaining metadata, coordinating nighttime production and aerial imagery integration, daily GIS edits for fire perimeter, closures, air drops, heli-spots, etc.

Washington State Department of Natural Resources | Olympia, WA July 2018 - March 2023

Wildfire Fiscal Analyst

- Serve as a GISS on wildland fire incidents. Duties include: creating multiple incident map products, obtaining GIS data from local resources, integrating data from various gps units (Collector, Survey 123, Avenza) and incorporating data into incident GIS, developing, updating, and maintaining metadata, coordinating nighttime production and aerial imagery integration, daily GIS edits for fire perimeter, closures, air drops, heli-spots, etc.
- Responsible for all fire and aviation payables.
- Compile comparative reports to analyze/improve agency functions.

- Assist in monthly budget review process for wildfire division.
- Analyze aviation contracts to ensure compliance with terms.
- Analyze interagency fire agreements to ensure compliance with terms.
- Complete thorough post-season audits of all FMAG, National Guard, and Out of State fire charges and coordinate reimbursement with partnering agencies.
- Prepare Billing Summary spreadsheets via the use of complex formulas and advanced Excel skills.
- Develop & improve spreadsheets for inter-agency billing following fire season. This involves the use of complex formulas to present an accurate, flowing billing summary for federal fire partners.
- Complete NaturE billings for Camps, Out of State Fires, and FFPA programs
- Provide VISA training to Wildfire Division staff
- Regularly coordinate with region personnel to meet financial deliverable goals
- Assist with season-end interagency cost settlements.
- Serve as a GISS on wildland fire incidents. Duties include: creating multiple incident map products, obtaining GIS data from local resources, integrating data from various gps units (Collector, Survey 123, Avenza) and incorporating data into incident GIS, developing, updating, and maintaining metadata, coordinating nighttime production and aerial imagery integration, daily GIS edits for fire perimeter, closures, air drops, heli-spots, etc.

Batdorf & Bronson Coffee Roasters | Olympia, WA

December 2017 - May 2018

Accounts Payable Specialist

- Handle all accounts payable transactions
- Assist controller with the entering of journal entries
- Prepare inventory analysis reports
- Accurately record incoming and outgoing wire transfers
- Assist controller with varying projects as needed
- Create and maintain vendor files including W9 documentation
- Setup and maintain retail general ledger accounts

Bureau of Land Management - Boise District | Boise, ID

May 2017 – September 2017

Forestry Technician GS-5 (Seasonal)

- Assist in the suppression/prevention of wildfires as a member of a handcrew and/or engine crew
- Inspect contract units and ensure contractors are meeting project specifications.
- Collect fuels samples, calculate fuel moistures, and analyze results
- Monitor designated fuels areas to assess current fire conditions.
- Conduct targeted grazing analysis to ensure targets are being met
- Maintain courteous, professional contact with the public and inform them of fire hazards and prevention

Adecco/A10 Capital | Boise, ID

January 2017 - May 2017

Accounting Assistant (Temporary)

- Handle all accounts payable transactions
- Assist controller with the entering of journal entries
- Manage Oracle vendor database
- Accurately record incoming and outgoing wire transfers
- Assist controller with varying projects as needed
- Create and maintain vendor files including W9 documentation

Sawtooth National Forest-Minidoka Ranger District | Burley, ID May 2016 - November 2016

Forestry Technician GS-4 (Seasonal)

- Assist in the suppression/prevention of wildfires as a member of a handcrew and/or engine crew
- Inspect contract units and ensure contractors are meeting project specifications. Work with contractors to meet objectives.
- Complete district project work to meet specifications
- Prepare fuel reduction units for project work through scouting stands and flagging them off using GPS units
- Collect fuels samples, calculate fuel moistures, and analyze results. Present findings to management.
- Gather data and record information on fuel types, weather conditions, fire behaviors, and status of work accomplished
- Clean, maintain, recondition, and store tools and equipment
- Assist wildlife and recreation departments with project work as needed
- Maintain courteous, professional contact with the public and inform them of fire hazards and prevention

Accountemps/Pioneer Title | Boise, ID

November 2015 - January 2016

Staff Accountant (Temporary)

- Work with permanent employees to research erroneous postings made throughout the 2015 fiscal year.
- Quickly learn company accounting software and procedures in order to assist in completion of year-end financial statements.
- Accurately complete monthly bank reconciliations for various cash accounts dating back to the beginning of the 2015 fiscal year.
- Resolved account reconciliation issues quickly.

Bogus Basin Mountain Recreation Area | Boise, ID

December 2015/2016 - March 2016/2017

Bartender/Supervisor (Seasonal)

- Serve customers efficiently and pleasantly.
- Assist customers with information regarding facilities, ski runs, and mountain events
- Handle all cash, credit and debit transactions in the lodge

- Count and record tip money for wait staff at the end of the night
- Ensure the facilities are clean and secure for the next morning

Ambit Funding | Wilkes Barre, PA

September 2012 - August 2015

Staff Accountant

- Track, analyze, and maintain general ledger accounts of numerous real estate and rental properties
- Accurately enter company A/R and A/P transactions
- Compute and complete various international and inter-company wire transfers
- Compile comparative reports to analyze/improve business functions
- Make general and adjusting journal entries for various business units
- Reconcile balance sheet accounts
- Create and maintain vendor files including W9 documentation; prepare year-end 1099's
- Complete month-end closing tasks in a precise and timely manner
- Accurately analyze, interpret, and present financial statements to executive management.

Computer Skills:

- PowerPoint • Intuit QuickBooks • Microsoft Access • Microsoft Excel • Oracle/NetSuite
- Adobe • Adobe Illustrator • Peachtree • Microsoft Word • Microsoft Outlook • ArcPro • ArcMap • FieldMaps • ArcGIS Online • CSS • HTML • JavaScript • Leaflet • Python • SQL • PowerApps • PowerBI

Leadership/Volunteer Activities:

- GISS for Northwest Incident Management Team 13
- Conservation Volunteer with numerous organizations, including Washington DNR, Washington Trails, The Mountaineers, Idaho Trails, USFS, and PA DCNR
- Wildland Firefighter for USFS, BLM, and PA DCNR
- Adventure Scientists Volunteer