

Alex Moss

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CERTIFICATION & SKILLS

NSCC's Centre of Geographic Sciences (COGS)

Sept 2023 - Present

Graduate Certificate, Geospatial Data Analytics

Remote

- Completed a capstone project developing and implementing a GIS toolbox for automating underwater pipeline routing and report creation, showcasing advanced Python scripting and geospatial data processing skills.
- Gained proficiency in a wide range of geospatial tools and technologies, including ArcGIS Pro, QGIS, and PostgreSQL, enabling effective spatial database management and comprehensive geospatial analysis.
- Applied advanced machine learning and data mining techniques in Python and R to uncover insights from geospatial data, enhancing predictive modeling and spatial data visualization skills.

Skills: ArcGIS Pro (*Business Analyst, Custom Toolboxes, Network Analysis, Geostatistical Wizard, Suitability Analysis, ModelBuilder*), Python (*GeoPandas, Scikit Learn, Pytorch, Rasterio, Numpy, Psycopg, Matplotlib, Seaborn*), QGIS, PostgreSQL (*PostGIS*), R, ArcGIS Insights, ArcGIS StoryMaps, ArcGIS Online

WORK EXPERIENCE

St Barbara Atlantic Operations

Sept 2022 - Sept 2023

Reliability Engineer-in-Training

Middle Musquodoboit, NS

- Implemented and managed key performance indicators (KPIs) for mechanical and electrical maintenance, driving up to a 30% improvement in maintenance effectiveness and efficiency.
- Led Root Cause Failure Analysis (RCFA) initiatives for equipment issues, chairing RCFA meetings, planning equipment inspections, and contributing to proactive maintenance strategies and equipment reliability.
- Provided comprehensive technical and operational support across various mill areas. This included maintenance schedule planning, coordinating shutdowns, facilitating equipment procurement, and offering hands-on assistance to millwrights, ensuring smooth mill operations during the mine's final operational year.

Dexter Construction

June 2022 - Sept 2022

Project Coordinator

Halifax, NS

- Coordinated project timelines, milestones, and requirements, ensuring efficient delivery within budgetary and specified parameters.
- Assisted in day-to-day project operations, including subcontractor management, site meetings, and scheduling, fostering project execution continuity.
- Contributed to project progress tracking, cost management, and safety initiatives, promoting a positive safety culture, and supporting process improvements.

Dillon Consulting

Oct 2020 – July 2021

Site Inspector, Engineer-in-Training

Sydney, NS

- Conducted site observations and quantity surveys to uphold contract compliance.
- Utilized GPS technology for precise data collection, facilitating detailed record drawing preparation.
- Collaborated closely with on-site foremen to swiftly resolve emergent challenges, fostering a proactive problem-solving approach, and ensuring project execution continuity.

EDUCATION

Dalhousie University

April 2020

BEng, Mineral Resource Engineering

Halifax, NS

- Worked at Syncrude as a Haul Truck Driver and Tailings Planner for a total of 12 months as a co-op student.
- Represented Dalhousie University at the 2020 Canadian Mining Games in Halifax, NS.