

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.