

Mohamed Sedig Hamed Mohamed

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 [LinkedIn Profile](#)

 Dammam, Eastern Region, Saudi Arabia

Professional Summary

I am an accomplished Senior Exploration Geologist with over 12 years of extensive experience in mineral prospecting and exploration within the Arabian Nubian Shield and the Arabian Shield, specializing in gold, base metals, and industrial minerals. My expertise includes geological mapping, geochemical sampling, RC and DD drilling, project management, and open-pit mining. I possess exceptional skills in GIS, QA/QC, data validation, and resource estimation, supported by a robust background in 3D modeling and geological data interpretation. With a deep understanding of key mineralization styles such as Gossan, VMS, Orogenic, and Porphyry systems, I effectively lead exploration programs in alignment with international standards (JORC) while adhering to Saudi mining regulations. My ability to manage multidisciplinary teams drives successful resource development projects, ensuring excellence in all phases of exploration.

Key Skills & Technical Expertise

- Mineral Exploration & Prospecting (Gold, Base Metal, Industrial Minerals)
 - Geological Mapping, geochemical sampling & Resource Estimation
 - Drilling Operations (RC & Diamond Drilling)
 - Geophysical Surveys & Geochemical Analysis
 - GIS & 3D Modeling Software (ArcGIS, QGIS, Surpac, Leapfrog)
 - Mining Regulations & Licensing Processes (Saudi Arabia)
 - Project Management & Team Leadership
 - Adaptability and Resilience & Problem Solving
 - Data Analysis & Reporting (Excel, Power BI)
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Professional Experience

Team Leader Geologist

ZRICON MINING COMPANY

October 2025 – Present | Riyadh, Saudi Arabia

- Lead and supervise all geological exploration activities across the company's licensed areas.

- Plan, organize, and monitor field programs including geological mapping, sampling, and drilling.
- Coordinate with multidisciplinary teams to ensure data quality, safety compliance, and timely project delivery.
- Provide technical guidance, data interpretation, and exploration reporting to management.

Senior Exploration Geologist (Contract)

TAMADON MINING CO. (Project with AMAK – Al Masane Al Kobra Mining Company)

Jul 2025 – September 2025 | Najran, Saudi Arabia

- Managed a geochemical sampling program (rock chip, trench, soil, and stream sediment) across multiple AMAK project areas, ensuring compliance with international exploration standards (JORC Code).
- Oversaw systematic QA/QC, validation, and correction of geological data, enhancing accuracy and reliability.
- Coordinated sample dispatch, reporting, and stakeholder communication, ensuring timely project updates and smooth execution.
- Worked on projects targeting specific mineralization styles, including **Gossan, VMS, and Quartz Lode systems**, applying economic geology knowledge to guide exploration and target generation.

Senior Exploration Geologist

BARG ALSAMAN MINING CO.

Nov 2023 – Aug 2025 | Dammam, Saudi Arabia

- Led geological mapping and drilling operations, ensuring QA/QC compliance.
- Secured Shuaib Marqan mining site through successful tender applications (Rounds 6 & 7).
- Managed a team of 9 geologists, overseeing data collection, reporting, and exploration activities.

Project Geologist

SHOROUG ALWATAN COMPANY LTD

Mar 2023 – Dec 2023 | Tabuk, Saudi Arabia

- Directed exploration & licensing for high-purity silica sand, obtaining a small mining license in 7 months.
- Supervised site planning, drilling, and production setup, ensuring HSE compliance.
- Prepared and submitted regulatory reports to the Ministry, securing project approval.

Acting Project Manager

GOLDEN COMPASS (Adwan Chemical Industry Company)**May 2022 – Apr 2023 | Riyadh, Saudi Arabia**

- Successfully managed silica sand & kaolin quarries, increasing production from 200 to 400 tons/hour.
- Led mine planning, geological control (GC) programs, and stockpile management.
- Developed short-term mining plans, optimizing haulage and extraction processes.

Senior Exploration Geologist**MINE TECH MINING SERVICES COMPANY****Nov 2020 – Oct 2021 | North Sudan**

- Managed exploration projects in North Sudan, ensuring effective QA/QC protocols.
- Supervised RC drilling operations, improving efficiency by 30%.
- Conducted geological mapping, rock-chip sampling, and resource interpretation.

Exploration Geologist**QMSD MINING CO. LTD****Dec 2019 – Nov 2020 | Jabal Ohair, Red Sea, Sudan**

- Managed geological exploration programs, including mapping, geochemical sampling, and geophysics.
- Supervised diamond and RC drilling operations, enhancing data collection processes.

Mine Geologist**LEGEND MINING COMPANY LTD****Nov 2018 – Nov 2019 | Sudan**

- Led chrome ore extraction planning, optimizing drilling & blasting techniques.
- Developed geological maps and resource models using GIS & Surpac.

Field Geologist**GEOMINE CONSULTANT COMPANY****Sep 2016 – Oct 2018 | Sudan**

- Conducted preliminary geological investigations for gold exploration projects.
- Performed core logging (RQD), field mapping, and sample analysis.

Mud Logger**DATALOG TECHNOLOGY INC****Jul 2014 – May 2016 | Sudan**

- Monitored lithological data, fluid samples, and well formation evaluations.
- Maintained geological sensors & real-time drilling data analysis.

Hydrogeologist

ELRAKHEE INTERNATIONAL COMPANY

Oct 2013 – Oct 2014 | Sudan

- Supervised well drilling, pumping tests, and cementing jobs for deep & shallow water wells.
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Education

University of Dongola

B.Sc. in Geology (Hydrogeology) | 2007 – 2012

Thesis: Hydrological Investigation and Regional Mapping of the Al-Qaab Sedimentary Basin (Nubian Sandstone): Groundwater Quality and Quantity Assessment Using Remote Sensing, GIS, and Geophysical Surveys (Schlumberger and Wenner Methods)

Certifications & Training

- Surpac Software Basic – Geosoft Center for Training (2024)
 - Mining Drilling Techniques – Geosoft Center for Training (2024)
 - PMP® Certification Training – Engaz Center (2024)
 - ISO 9001:2015 Certification – Engaz Center (2024)
 - Data Analysis using Excel & Power BI – WellGrow Training (2024)
 - McKinsey Forward Program – McKinsey & Company
 - Google Project Management: Professional Certificate – Coursera (2024)
 - ArcGIS: From Beginner to Pro – Udemy (2024)
 - Surface Geology & Mineral Exploration Planning – Udemy (2024)
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Honors, Awards & Membership

- MAusIMM Membership – Australasian Institute of Mining & Metallurgy (2025)
 - Employee of the Month – Golden Compass Mining Co. (Sep 2022)
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Languages

- Arabic: Native
 - English: Fluent
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Additional Information

- Valid Driver's License
 - Willing to Relocate & Travel for Work
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References

Available upon request