

Pavan Chandra Somagani

Mobile: 7783216007

somaganip@gmail.com

TECHNICAL SKILLS

Operations

- Backfill & Construction-UG
- Drill and Blast- Surface
- Mine Ventilation-UG
- Project Planning & Scheduling
- Financial Planning & Analysis
- Procurement
- Production Efficiency
- Shotcrete mixing
- NBCC, CSA.A23, CSA-S16
- Site monitoring & Inspections
- Structural and Geotechnical analysis

Technical & Software skills

- AutoCAD
- Maptek-Vulcan
- Hexagon-Minesight
- REVIT
- STAAD PRO
- MicroStation
- MS Excel-Advanced user
- Timberline
- Primavera

Certification

- Class-G driver's license
- Ontario UG common core
- EIT-EGBC
- PMP-Ongoing
- P.Eng - ongoing

EXPERIENCE & EDUCATION

Metro College of Technology

Structural Engineering Design & Technology

Jul 2023 to Jan 2025

- Specialized in core subjects such as Structural Analysis, Concrete, Steel and Wood.
- Developed Steel and Concrete buildings designs & layout plans by using drafting software like REVIT and AutoCAD.
- Calculated the Structural integrity analysis for Steel and Concrete Budlings and Steel warehouse using STAAD PRO.
- Honed skills in AutoCAD, REVIT, STAAD PRO, Timberline & Primavera.

Royal Bank of Canada

Financial & Banking advisor

Oct 2022 to Jul 2023

- Evaluating financial risks and preparing financial forecasts for clients
- Planning and assessing the financial performance of clients.
- Developing and implementing tools for analyzing financial portfolios
- Taking part in the financial aspects of contracts and calls.

Alamos Gold

Engineer in Training (Mining)

Backfill and Construction Department

Aug 2020 to Feb 2022

- Design the paste fill and waste fill packages for empty stopes, and do technical analysis for the backfill components (Cement and Tailings) required in filling the stope.
- Plan and Coordinate construction activities for capital and operational projects.
- Schedule and update weekly paste pour plan and quarterly backfill rate plan.
- Do paste plant tours to perform slump tests for due diligence.
- Survey UG pipe run (lateral and longitudinal) to check the condition whenever required.
- Develop paste wall prints, pipe run layouts, co-disposal waste fill packages etc.,

Ventilation department

- Perform and review ventilation survey for UG mine, which consists of 40 levels more than 1.2 km deep, with 30 meters dividing each level.
- Troubleshoot ventilation problems such as airflow monitoring and duct system issues and implement new strategies to optimize and develop ventilation standards, primarily focusing on reducing operating costs.
- Design a pre-blast checklist to clear gases after blasting is done.
- Develop and implement field directions for short term and long-term ventilation changes and activities.
- Support long-range planning and actively work on short term goals such as open stopes recirculation, DPM & Silica monitoring analysis, power usage control etc.
- Regularly work with Amine, to update the Ventilation system of the mine from time to time.

Conuma Coal Resources

Engineer in Training

Drill and Blast Department

Jun 2019 to Jul 2020

- Performed bi-weekly plan for designing and scheduling drill and blast activities with priority sequence.
- Designing blast patterns through **HEXAGON Minesight** for the blast patterns with safety and geotechnical constraints.

- Recheck the blasted drill holes for coal picks and export the data into excel graph files, to mark Crest and toe lines and safely extract the coal without any damage.
- Directing blast crew and surveyors and providing them with the support and required data, where communication is a vital part of my role to maintain the bridge between the engineering and operations team.
- Check the drill bit efficiency and performance on waste and ore.

Finance Planning Analysis and Production Efficiency

- Complete analysis of budgeting and forecasting for monthly costs.
- Performing variances and cost controlling analysis for maintenance, operational and capital costs.
- Improved production efficiency by maximum utilization of equipment proportional to availability with fewer variances by recoding the proper timings of running equipment.
- Setting the production targets for raiing and shipment of coal on a month-to-month basis.
- The maintenance costs were reduced by over 800k in July, by detecting unnecessary schedule breakdown costs of equipment.

University of British Columbia

Aug 2018 to Jun 2019

- Master of Engineering in Mining Engineering
- specializing in Mine Economics, Industrial Expert systems and Geostatistics.
Teaching Assistant and Marker- (SUB: MINE 310/590C- Surface Mining and Design)

The JB Institute of Engineering and Technology

Feb 2018 to June 2018

Assistant Lecturer-

Taught subjects Underground Mining and Mining Machinery to third and final-year Mining students pursuing bachelors.

Indian Institute of Technology, Kharagpur Geotechnical Project

Sep 2017 to Dec 2017

- Developed the bio-reclamation of the vetiver system on the overburden-waste slope in the DUMP-13 Site at the Kumdanda mine project, Chhattisgarh, India.
- Completed the project within 100,000\$, where funded 350,000\$ and saved 250,000\$ to the management.

Sunny Enterprises

Senior Mine Engineer-Remote

Sep2016 to Sep2017

- Evaluate efficiency of mines to determine adequacy of personnel, equipment and technologies used in all mines combined.
- Make changes to daily schedules or equipment when necessary.
- Provide reliability analysis report on machinery used.
- Daily Monitoring of occupation, health and safety personnel on site.

University of Western Australia

Feb 2014 to Aug 2016

- Master of Professional Engineering in Mining Engineering

Mining Engineer

Jul 2012 to Jan 2014

- Schedule daily operations, develop strategic plans to meet company goals and mentor team members.
- Monitored complete drilling and blasting operations of the mine workings.
- Regular meetings with the clients to update the quality and quality assurance.
- Developed occupational health and safety training objectives and policies.
- Developing and maintaining standards, meeting prescribed timelines, developing strategic plans to meet company goals, and mentoring team members.
- Improve the safety standards and industrial relations.

Kakatiya University

Aug 2008 to Jul 2012

- Bachelor of Technology in Mining Engineering

Sunny Enterprises

Aug 2011 to Jan 2012

Mining Trainee

- Induction in planning and designing optimum drilling and blasting patterns and controlled blasting techniques.
- Revised the safety plan and improved the standards of the mining quarry.

NMDC (National Mineral Development Corporation)

Jun 2011 to Jul 2011

Mining Trainee

- Involved with Bachelu Mining Complex operating heavy dump trucks and loaders with an induction, where the majority of its resources are located.

PROFESSIONAL AFFILIATIONS

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- EIT-EGBC