

# Pavan Chandra Somagani

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## 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

### Ontario Transit group- Toronto, Canada

#### Project engineer – Contract Temporary

Oct 2024 to Jan 2025

- Been a part of the 15 km underground rail tunnel mega project and worked primarily on Shaft and cavern activities for the King & Bathurst station.
- Perform Procurement work for different types of construction activities, such as RFI, RFQ, RTP, etc., with varying types of vendors
- Monitor construction activities to meet the Canadian standards.
- Engage with all key stakeholders, especially with other contractors and Metrolinx (Client), to meet the project deadlines.
- Perform ventilation checks to meet air quality standards.
- Document the daily activity into a report, review the VTS (VISUAL TASK BRIEFING), MAR (material acceptance testing), Ground instrumentation monitoring points, etc., and send daily reports to the management.
- Provide technical guidance whenever required related to drawings, designs and work to the Construction Superintendent, foreman, operators, etc.

### 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 Buildings and Steel warehouse using STAAD PRO.
- Honed skills in AutoCAD, REVIT, STAAD PRO, Timberline & Primavera.

### Royal Bank of Canada

#### Financial analyst

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 railing 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.

#### **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 Bachel 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