

Haochen Zhao

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EDUCATION:

West Virginia University	(Ph.D.)	Expected graduate date	May 2021
Mining engineering			
Colorado School of Mines	(M.S.)		Aug 2016-May 2018
Mining and Earth System Engineering			
Henan Polytechnic University	(B.E.)		
Mining Safety Engineering			Sept 2012- July 2016

RELATED EXPERIENCE

Edgar Experimental Mine	Golden, CO	Intern/Foreman	May 2017-Aug 2017
Calculated drill hole directions and locations, define the geological border and location.			
Developed and compared 4+ solution plans addressing roof support problems and mitigate collapse and rock burst risks			
Conducted mine risk evaluation for the whole coal mine.			
Tianan No.1 Coal Mine	Henan, CN	Intern/Assist Engineer	Mar 2016-May 2016
Calculated drill hole directions and locations, define the geological border and location.			
Developed and compared 4+ solution plans addressing roof support problems and mitigate collapse and rock burst risks.			
Phoenix Mountain Coal Mine	Shanxi, CN	Intern/Assist Engineer	Sep 2015-Jan 2016
Collected and analyzed sample data according to geological conditions and production plan in Auto CAD			
Test the collected sample through compare with historical data and analysis the data, submit the geological condition report to the production department.			
Conducted mine risk evaluation for the whole coal mine.			
Collect all data and assist engineers to find a best solution to solve the problem, and according to the solution make a short-term production plan.			

PUBLICATION:

Zhao, Haochen, and Rennie B. Kaunda. "Numerical Assessment of the Influences of Gas Pressure on Coal Burst Liability." *Energies* 11.2 (2018)

SKILLS:

Computer:	FLAC 3D, @Risk, Slides, Phase 2, Matlab, MathCAD, AutoCAD, Ventism
Laboratory:	Land Surveying, Maintenance on equipment, Mine planning reports, Mining/Excavation, Strength Tests, LogPlot, Feasibility, Handling mining equipment
Communication:	corporate presentation experience, technical writings-laboratory reports, corporate product documentation
Strength:	Hardworking, teamwork player, independent research
International:	Chinese mandarin (native), English (fluent)

RESEARCH EXPERIENCE:

Research assistant, Prof. I. Berk Tulu's Lab	Aug 2018-Present
Numerical modeling with FLAC 3D	
Dig the lithology information from core sample report	
Participant, Prof. Rennie Kaunda's Lab	Jan 2017-May 2018
Numerical modeling with FLAC 3D	
Prepare limestone sample and assemble experimental instrument	
Research assistant, Prof. Fajun Zhao's Lab	Sep 2013-Sep 2015
Calibrate the experimental instruments and design the lab outline.	
Monitor methane recovery flow speed and calculate the permeability of coal seam	
Research assistant, Prof. Yugui Zhang's lab	Sep 2012-Jul 2013
"Anisotropy and permeability of coal seam" project	
Prepared predicted problems in the project and designed laboratory experiments	
Conducted experiments for monitoring permeability of coal sample.	

PROFESSIONAL MEMBERSHIP:

Society of Mining, Metallurgy, Exploration (SME)

HONORS:

Waaime Award (2019)	NAT young researcher scholarship (2018)
Murchison Award (2018)	Excellent student scholarship (2015)