Mining Engineering Weekly Seminar

Wednesday, September 30, 2020 at 4:00 p.m.
Zoom link: https://mines.zoom.us/j/96268785688

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Use Cases (and Jobs) Being Disrupted with Advances in Technology* in the Mining Industry

*Such as: digitization, cloud, drones, autonomous vehicles, IIoT and AI/ML.

Abstract:
The pace of innovation and technology advancement is unprecedented. Mining is about 30 years behind the technology curve and is starting to catch up. Two of the biggest advancements are in the use of Drones for survey (both Surface and Underground) and in Autonomous Mining Equipment. These combined with other advances in mobile devices, wearables, cloud computing, IIoT and AI/ML will fundamentally change the way we mine in the next 20 years.

Does the success of a future mine belong to a geologist, a mine planner, a metallurgist or an algorithm? In this talk, I will go over various use cases and the job types that are currently being disrupted using these technologies and what it will take to make an impact in the industry.

Bio:
Mr. Satish Penmetsa is the CEO of GroundHog, a mine digitization platform for mining operators around the world, to improve productivity and safety. As a CEO, his key roles have been in business strategy and product innovation, while seamlessly executing an array of apps for mining companies. He has more than two decades of experience in data analytics, data management, data protection, etc. and holds a couple of patents in this field. Satish is Wharton School alumni specializing in Entrepreneurship and Finance and has a Master’s in Electrical and Computer Engineering from The University of Texas at Austin.