RAJ KUMAR M

Mining Engineer – Holder of Second-Class Manger's Certificate (Restricted)

CONTACT

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SKILLS

Front-end & Software development

- HTML | CSS | JavaScript
- Python | Tkinter
- VS code | PyCharm
- GitHub | Bitbucket

Mining Engineering

- Solid Edge
- Slide | Phase2 |Geoslope| Ansys| Oasys | Flac 2D
- MS Office
- Tally – basic level

Electronics and communication

- Arduino IDE
- WSN | IoT
- Zigbee | XCTU
- LORA | Ebyte
- ThingSpeak
- PythonAnywhere

LANGUAGES

Tamil   – Fluent (Native)
English   – Proficient
Hindi   – intermediate
Kannada – intermediate
Telugu   – intermediate

HOBBIES

Homemaking and Reading

WORK EXPERIENCE

Dept of Mining Engineering, UCE, OU.
[Since - May-2022]
Working as a lab assistant and perusing M.E Mining Engineering in part time.

Vishwas Construction Industries Pvt Ltd.
[Dec-2020 to Jan-2022]
Worked in the position of Graduate Engineer Trainee (Mining) for all mining activities.

PROJECT WORKS

- "**Development of Slope Deformation Calculator Using Python based on Numerical Modelling parametric study for slope stability analysis and slope design**" aims to develop a python software that predicts slope's deformation based on the results of Numerical Modelling parametric study using ANSYS software.
- "**Development of Advanced Slope Monitoring System in Opencast Mines Using WSN and IoT**", aims to develop an advanced slope monitoring system using wireless sensor networks, IoT and the Thingspeak cloud platform to provide an early warning in cases of slope failure.
- "**Development of Trigger Action Response Plan for Advanced Slope Monitoring System Using Python**", aims to develop a triggered action response plan using python for an advanced slope monitoring system.
- "**Evaluating the Stability of Underground Coal Mine Pillars Using Numerical Modelling",** aims to check the stability of rib pillars of underground coal mining using the Flac numerical modelling software as a parametric analysis.

CONFERENCE PAPERS

- "**Overview of Real-time Slope Monitoring using Wireless Sensor Networks"** National Seminar on Key Trends in Occupational Safety, Health and Environment in Mining, May 2023, ESCI, Hyderabad.
- "**Wireless Sensor Networks and Real-time Slope Monitoring – A brief Review**" International Conference on Emerging Trends in Engineering, Atlantis press, Apr 2023, UCE, OU, Hyderabad. (under publication).
- "**Mining beyond earth: An overview of its importance**", International symposium on "Recent Trends in Mining Industry", Journal of Mines, Metals and Fules, August 2022, UCE, OU, Hyderabad. (Under Publication).

RESEARCH PAPERS

- "**Evaluation of dump slope stability using Slide, Geoslope and Phase2 Software**", Journal of machines and computing, Anapub Publication, Jan 2022.
- "**Factors affecting slope stability: A brief review**", International journal of innovative science and research technology, May 2022.

EDUCATION

University College of Engineering, Osmania University [2022 – 2025]	Acharya Institute of technology [2016 – 2020]	Bharathidasan Matriculation Higher Secondary School [2015 – 2016]	Bharathidasan Matriculation Higher Secondary School [2013 – 2014]
Masters of Mining Engineering	Bachelor of Mining Engineering	Higher Secondary education	Secondary education
CGPA: 8.4 (I Sem)	CGPA: 7.36	Percentage: 80.41%	Percentage: 88%