

## Personal Information

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**Full name:** Sayed Ramadan Hamed Gouda  
**Gender:** Male  
**Date of birth:** Aug 12<sup>th</sup>, 1990  
**Place of birth:** Assiut Governorate  
**Citizenship:** Egyptian  
**Language (s):** Arabic (Mother-tongue), English (fluent)



## Contact Information

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## Education & Certificates

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**M. Sc., Mining Engineering** Sept. 2019 – January 2024

**Research Area:** Tunnel ventilation

Assiut University, Egypt

**Thesis:** Improving Efficiency of Tunnel Ventilation

**Supervisors:** Prof.

Prof. Mohamed Abuel-Kassem Mohamed, Prof. Elseman Ibrahim Abdelrasoul

**B. Sc., Mining Engineering**

Sept. 2012 – June 2017

Assiut University, Egypt

## Academic Position

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Assistant Lecturer, Department of Mining and Metallurgical Engineering, Faculty of Engineering, Assiut University, January 2024 to present.

Demonstrator, Department of Mining and Metallurgical Engineering, Faculty of Engineering, Assiut University, April 2019 – January 2024.

## Research Area (s)/Qualifications

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### Tunnel ventilation and Environmental Engineering

**More specifically:**

- Assessing mining's environmental impact and controlling mine climate through ventilation techniques

- Mine air pollution, tunnel gases, mine dust, and methods of controlling the mine atmosphere.
- Economics of tunnel ventilation systems and smart control in tunnel fire safety and IAQ management
- Smart control of subways by artificial intelligence
- Application of CFD software (ANSYS FLUENT) for predicting ventilation rates
- Indoor Air Quality (IAQ) Monitoring and Control System in Metro Tunnels Through a Ventilation Control Method Using Smart Control (Sensors)

## Publications

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1. **Hamed, S. R.**, Abdel Rasoul, E. and M. Abuel-Kassem, “Design and calculation of tunnel ventilation system for Cairo Metro Line 3 (A case study)”, Journal of Engineering Sciences, vol. 51, No. 1, Jan 2023. DOI: [10.21608/jesaun.2022.172428.1179](https://doi.org/10.21608/jesaun.2022.172428.1179)
2. M. Abuel-Kassem., Abdel Rasoul, E. and **Hamed, S. R.**, “CFD Application to estimate air flow rate for normal ventilation in metro trains and stations” American Journal of Science, Engineering and Technology, 2023;8(4):226-234. DOI: [10.11648/.ajset.20230804.18](https://doi.org/10.11648/.ajset.20230804.18)
3. M. Abuel-Kassem., Abdel Rasoul, E. and **Hamed, S. R.**, “Numerical simulation of air flow distribution in the tunnel of Cairo Metro Line 3 using CFD”, International Journal of Multidisciplinary Research and Analysis, 2023. DOI : <https://doi.org/10.47191/ijmra/v6-i8-56>

## Academic experience

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Teaching and delivering lectures and in-class tutorials for several courses since 2019 to present Assistant instructor, University of Assiut, Egypt, for example:

### 1. Mining Engineering

- Assessment of mining's environmental impact and control of mine climate through the use of tunnel ventilation and air conditioning techniques
- Mine air pollution (sources, effects, and modelling)
- Mine gases – mine dusts – sources of heat in tunnels and methods of control of mine atmosphere
- Economics of tunnel ventilation systems (Air flow through mine openings and ventilation ducts)
- Rock Mechanics, ground control and Geomechanics
- Tunnel Ventilation, Energy and Environmental Engineering
- Environmental cooperation for Building a resource efficient society to respond to climate change.
- Environmental management engineering and disaster risk reduction
- Environmental impact assessment.
- Mineral Economics, mine reliability and asset management
- Mine design, planning and numerical modelling
- Mining geology
- Mine surveying

**2. Mineral Processing**

- Ore Flootation using novel depressants and collectors
- Surface Chemistry study
- Release of trace elements from coal waste sources
- Fluid dynamic modelling and lab testing
- Coal cleaning by means of dry and wet based separation technologies
- The performance of froth floatation
- Comminution and ore liberation

**3. Materials Engineering**

- Chemical Engineering
- Corrosion Engineering

**Industrial Experience**

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- Supervisor of Mine surveying projects, El-Qusseir phosphate mines (June and July each year), 2016-2019
- Tunnel planning and design during the construction phase (Oct.2014- Jan.2015)
- Environmental measurements inside factories and identification of environmental risks and pollution
- Production engineer for the glass factory at the pearl company on October 6th in Cairo, 2018
- Production engineer at Canadian International Aluminium company on October 6th in Cairo, 2018-2019

**Professional Membership and Services**

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- Academic staff, University of Assiut, Egypt (since 2019 to present)
- Member of Egyptian Syndicate of Engineers (ESE), since 2017 to present
- Licensed and Certified Engineer in using and operating of TOPCON TOTAL STATION, 2017
- Licensed and Certified Engineer in using AUTO CAD program at the EEDC, Assiut Uni, 2018

**Computer Skills**

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- Auto CAD
- Surfer
- Computational Fluid Dynamic (CFD) - Fire Dynamic Simulator (FDS)

**Honors and Awards**

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- B. Sc. Honor Graduation Award, University of Assiut, Assiut, Egypt, 2019
- Excellence in Tunnel planning and design during the construction phase (91%).
- Award from my college 2014/2015
- Award from Egyptian Engineers Syndicate in 2016/2017

**Courses Taken**

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- Academy of occupational safety and health (OSHA)
- OSHA (general & construction industry).
- English conversations.
- Effective management of time and work stresses
- A course in examination systems and student evaluation
- A course in organizing conferences
- A course in the behavior of the teaching profession
- E-learning advanced course
- Scientific research funding

## **Referees/References**

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### **[1] Prof. Mohamed Abu-El Qassemi, Ph.D.**

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Faculty of Engineering, University of Assiut, Egypt

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### **[2] Prof. Mohamed Safwat Mohamed, Ph.D.**

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### **[3] Prof. Mohamed F. Yassin Ph.D**

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### **[4] Dr. Wael Abdellah, Ph. D.**

Assistant professor, Mining Engineering, Canada, Faculty of Engineering

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