

Curriculum Vitae (CV)

Mohamed Khalel Mohamed FaragAllah



Personal Information:

Academic Rank: Lecture Assistant

Department: Mechatronics Engineering @ Higher Technological Institute

Specialization: Automotive and control (Mechatronics)

Position: Demonstrator @ Higher Technological Institute

Google Scholar: <https://scholar.google.com.eg/citations?user=rAaCPhAAAAAJ&hl=ar>

Research Gate: [https://www.researchgate.net/profile/Mohamed-](https://www.researchgate.net/profile/Mohamed-Mfaragallah?ev=hdr_xprf)

[Mfaragallah?ev=hdr_xprf](https://www.researchgate.net/profile/Mohamed-Mfaragallah?ev=hdr_xprf)

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Education:

Degree	Discipline	Institution	Year
Ph.D.	preparing for a PH.D. degree	Faculty of Engineering, Helwan University, Egypt.	2024
M.Sc.	Mechatronics Engineering	Faculty of Engineering, Helwan University, Egypt.	2020-2024
B.Sc.	Mechatronics Engineering	Higher Technological institute	2019-2014

Academic Experience:

Institution: Higher Technological institute

Rank: Demonstrator

Dates: 2019

Institution: Higher Technological institute

Rank: Lecture Assistant

Dates: 2024

Research interests:

- Mechatronics Systems Design
- Automated Product Classification
- Dynamic's Control
- Injection Molding Process Optimization
- Vibration Analysis in Mechanical Systems
- Science Material and testing

Publications:

- 1- Faragallah, M. M., Metered, H., Abdelghany, M. A., & Essam, M. A. (2025). *Artificial Intelligence Technique Applied to Semi-Active Vibration Control in Vehicle Suspension System* (No. 2025-01-8270). SAE Technical Paper.**
- 2- Faragallah, M. M., Metered, H., & Essam, M. A. (2025). *Vibration Mitigation of Semi-Active Vehicle Suspension System Incorporating Magnetorheological Damper Using Hybrid Control* (No. 2025-01-8269). SAE Technical Paper.**
- 3- Essam, M. A., Faragallah, M. M., Magdy, M., & Abdeltawab, N. M. (2025). Effect of sliding velocity, load, and RPM on wear and friction in automotive brake pads. *Discover Applied Sciences*, 7(5), 453.**
- 4. Faragallah, M. M., Metered, H., & Abdelaziz, T. H. (2024). *Evaluation of Semi-Active Vehicle Suspension System Performance Incorporating Magnetorheological Damper Using Optimized Feedback Controller Based on State-Derivative* (No. 2024-01-2288). SAE Technical Paper.**

Certifications or Professional Registrations:


- **Certified Injection Molding Engineer – Al-Hilal and Al-Najma Company (May 2021 -Oct. 2024)**
- **Technical Training in Industrial Foam Production – Chema Foam Company – 2019**
- **Industrial Food Production Internship – Halwani Bros Company – 2018**
- **Modern Car Maintenance Training – Khaled Company – 2017**
- **Electrical Cable Manufacturing Training – International Cable Company (ICC) – 2016.**

Teaching Experience:

Lecture Assistant – Higher Technological Institute, 10th of Ramadan City
Aug. 2024 – Present

Teaching Assistant – Higher Technological Institute, 10th of Ramadan City
Oct. 2021 – Aug. 2024

- Assisting in delivering theoretical and practical sessions in Mechanical Engineering (Mechatronics).
- Supporting student projects, laboratory supervision, and coursework evaluation.
- Mentoring students in areas such as electronics, control systems, and CAD software.

Teaching Assistant (Temporary) – Higher Technological Institute, 10th of Ramadan City
 *Oct. 2019 – Jan. 2020*

Skills

Languages:

- English (Good)
- Arabic (Native)

Computer skills:

- SolidWorks (CAD and CAM), PowerMill, Arduino and LabVIEW
- MATLAB/SIMULINK, DSP, C, C++, PLC and CNC.
- Microsoft Office (Word, Excel and Power Point)

References:

Name	Tel	Email
Prof. Dr: Hassan Ahmed Metered	01060075371	Hassan.metered@gmail.com
Prof. Dr: Taha Helmy Sayed Abdelaziz	01016457750	TAHA_ABDELAZIZ@h-eng.helwan.edu.eg
Prof. Dr: Eman Ibrahim	01279814498	Eman.nasser@hti.edu.eg
Dr.: Mahmoud Ahmed Essam	01091452929	Mahmoud.elsefy@hti.edu.eg