Hany Mohamed Abdu Mohamed El-Sayed

PERSONAL INFORMATION :

Date of Birth: 1, March 1986.

Gender: Male

Nationality: Egyptian.

Social Status: Married.

Military Service: Exempted.

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Production Engineering and Mechanical Design Department, Faculty of Engineering, Minia University, 61511,EGYPT

Academic Experience:

- **29/7/2024** Lecturer, Department of Production and Design Engineering, Faculty of Engineering, Minia University.
- **01/10/2015** Assistant Lecturer, Department of Production and Engineering, Design Faculty of Engineering - Minia University.
- **24/2/2011** Demonstrator, Department of Production Engineering and Design, Faculty of Engineering, Minia University.

Education :

August 2024 **Ph.D., in Production Engineering and Mechanical Design**
Thesis Title " Optimization of Cutting Force and Surface roughness in Machining of Nanocomposite Aluminum Using Taguchi Method"

October 2015 **M.Sc., in Production Engineering and Mechanical Design**
Thesis Title "Modeling and optimization of laser cutting operations."

July 2012 **Pre-Masters Studies** in Mechanical Engineering, Faculty of Engineering, Minia University, Egypt.

July 2010 **B.Sc.,** in Production Engineering and Mechanical Design, Department, Faculty of Engineering, Minia University, Egypt. With commutative average grade distinction with honor's degree, ranked the first among 2010 graduated students.

Graduation Project: "The Production of Composite Material by Compo-Casting Process (Aluminum-Steel Wires)". **Grade:** Excellent.

TEACHING EXPERIENCE, Teaching Many courses in (Prod. Eng. & Mech. Design Dept. and Mechatronics Dept., Faculty of Engineering, Minia University), I have about 13 years in teaching the following courses for undergraduate (UG) students:

- Operation Research
- Machine Learning
- Quality Control
- Quality Engineering
- Strength of Material
- Engineering Drawing
- Composite Materials
- Projects Management
- Mechanical Design
- Jigs and Fixtures Design
- Statistical analysis using Minitab
- Theory of Metal Cutting and Tool Design
- Engineering Economy
- Design of Experimental
- Robust Design
- Machine Tool Design
- Materials science and engineering
- Metal Forming.
- Production Engineering
- Applied Mechanics
- Mechanical Drawing
- Material Handling equipment

Master & PhD:

Section: Production Engineering Design Mechanical

Major: Industrial Engineering

Titled: ‘‘Modeling and optimization of laser cutting operations [Master]’’

‘‘Optimization of Cutting Force and Surface roughness in Machining of Nanocomposite Aluminum Using Taguchi Method [PhD] ’’

List of Publications:

- Gadallah, Mohamed Hassan, and Hany Mohamed Abdu. "Modeling and optimization of laser cutting operations." *Manufacturing Review* 2 (2015): 20.
- Abdel-Aty, M. M., Gomaa, H. E., Abdu, H. M., Almasri, R. A., Irfan, O. M., & Barakat, N. A. (2023). Molybdenum Carbide/Ni Nanoparticles Embedded into Carbon Nanofibers as an Effective Non-Precious Catalyst for Green Hydrogen Production from Methanol Electrooxidation. Polymers, 15(11), 2430.
- Abdu, H. M., Tahaa, S. M., Wazeer, A., Abd El-Mageed, A. M., & Mahmoud, M. M. (2023). Application of Taguchi Method and Response Surface Methodology on

Machining Parameters of Al MMCs 6063-TiO 2. Jordan Journal of Mechanical & Industrial Engineering, 17(4).

- Abdu, H., Mohamed, S., Morad, A. A. E. M., Elhameed, A., Wazeer, A. E., & Moustafa, M. M. (2024). Modeling and Optimization of Process Parameters for Surface roughness and Cutting Forces on End Milling using RSM and Taguchi Method. Journal of Modern Research, 6(1), 14-20.

Computer Skills:

- Microsoft office Tools.
- Excellent command for internet search.
- MATLAB & Minitab.
- AutoCAD Mechanical.

Areas of Specialty:

- Industrial Engineering [Design of Experiments, Operation Research, Robust Design ,Quality Control, Modeling, Optimization, RSM and Quality Engineering]
- Material Science (Composite materials and Material characterization).
- Tribology (Friction, Contact physics, Lubrication, Solid lubricants, Self-lubricating composites and Wear mechanisms).

Job-Related Skills:

- Course in Research team management.
- Course in Scientific publishing.
- Course in Statistical analysis using Minitab.
- Course in Communication skills in different Education methods.
- Attend the SciVal Workshop "A tool for evidence-based research planning".
- Attend the quality assurance and accreditation unit workshops.

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LinkedIn : https://www.linkedin.com/in/hany-mohamed-a6927381/

academia : https://independent.academia.edu/hanymohamed7

Publons : https://www.webofscience.com/wos/author/record/IQU-4154-2023

REFERANCE

- **Prof. Wahid Yousry Ali**, Production Eng. and Mechanical design department, Minia University, Egypt,

: Wahyos@gmail.com **(Professor of Tribology)**

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- **Prof. Ahmed Nabhan Mahmoud,** Production Eng. and Mechanical design department, Minia University, Egypt,

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