

CURRICULUM VITAE

MOHAMED HASSAN HASSAN ELSAYED

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PERSONAL INFORMATION

Name: Mohamed Hassan Hassan Elsayed.
Date of Birth: February 7, 1996.
Place of Birth: Shoubra, Kalyobiya, Egypt.
Languages: English & Arabic.
Military Status: Completed.
Marital Status: Married.
Education: MSc. in Mechanical Engineering.
Last Occupation: Lecturer Assistant.
Date of CV: September 1, 2024

EDUCATION

Faculty of Engineering at Shoubra, Benha University, Egypt.
Degree Received: MSc. in Mechanical Engineering (Production Engineering and Design).
Date: November, 2024.
Thesis Title: Study on the weldability of additively manufactured 316L stainless steel via gas tungsten arc welding and laser welding.

Faculty of Engineering at Shoubra, Benha University, Egypt.
Degree Received: BSc. In Mechanical Engineering (Mechanical Design and Production).
Date: May 1, 2019.
Project Title: Design Centrifugal Casting Machine with Hydraulic Ejector.

ACADEMIC POSITION

Benha University- Faculty of Engineering at Shoubra	Egypt	2019- Now
-Lecturer Assistant		

PROFESSIONAL EXPERIENCE

Tawakol for Industrial metals	Egyptian Refining Company Project	Jul,2019- Nov,2019
-Design Engineer		

TEACHING EXPERIENCE

Material Science and Engineering.
 Production Engineering.
 Engineering Mechanics.
 Fracture Mechanics.
 Theory of Machines.
 Materials Design.
 Materials Tests.
 Casting Metals

SKILLS

Computer Skills

Microsoft Office; Word, Excel, PowerPoint.
 Origin Lab (Data Analysis and Graphing Software).
 MATLAB.
 SolidWorks.
 AutoCAD.
 FEATURECAM.

Language Skills

Native language Arabic.
 Very Good command of both written and spoken English.

Leadership and Communication Skills

- Skilled in identifying complex challenges and applying strategic thinking to devise effective solutions.
- Effective communicator, with the ability to quickly learn and adapt to new technologies and methodologies.
- Proven ability to work effectively within teams, promoting open communication.
- Skilled in managing stress and consistently meeting deadlines, while maintaining a positive and constructive attitude under pressure.

AWARDS

International Publishing Award, August 2024
 Benha University.

SCIENTIFIC INTEREST

Advanced Manufacturing Engineering.
 Additive Manufacturing Processes.
 Welding Techniques.
 Mechanical Properties of Materials.
 Material Science and Engineering.
 Microstructural Characterization.
 Advanced High Strength Steels.

CURRENT RESEARCH

A Comparative Study on The Corrosion Resistance of Additively Manufactured AISI 316L Welded Joints by Tungsten Inert Gas and Laser Welding.

Weldability of Additively Manufactured 316L Stainless Steel with Conventional Stainless steel.

UNDER REVIEW

Influence of building orientation of additively manufactured 316L stainless steel on mechanical properties of laser welded joints. (Welding in the World)

ACCEPTED, (Under Publication)

Indentation Behavior of Additively Manufactured 316L Stainless Steel Welded Joints via Gas Tungsten Arc Welding and Laser Welding. ECF24 conference proceedings of *Procedia Structural Integrity (PSI)*.

PUBLICATIONS

M. Elsayed, M. Khedr, A. Järvenpää, A.M. Gaafer, A. Hamada, Microstructure and Hardness Properties of Additively Manufactured AISI 316L Welded by Tungsten Inert Gas and Laser Welding Techniques, *Materials (Basel)*. 17 (2024). <https://doi.org/10.3390/ma17184489> .

M. Khedr, M. Elsayed, M. Jaskari, H.A. Abdel-Aleem, A.M. Gaafer, A. Hamada, Effect of building orientation on weld characteristics of additively manufactured 316L stainless steel: Microstructure and mechanical properties, *Mater. Sci. Eng. A*. 913 (2024) 147086. <https://doi.org/10.1016/j.msea.2024.147086>.

REFERENCES**1. Prof. Atef Saad Hamada**

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2. Prof. Ahmed Mohamed Gaafer

Professor at Mechanical Engineering Department, Benha University, Cairo, Egypt.

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3. Associate Prof. Mahmoud Khedr

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4. Associate Prof. Hamed Abdel-Aleem

Associate Professor of welding engineering at the Central Metallurgical Research and Development Institute, Cairo, Egypt.

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<https://www.scopus.com/authid/detail.uri?authorId=6602123866>