

Taha S. Sherif



**ASME-IGTI SAC
Student Paper Review
Initiative Chair
for Turbo Expo 2025**

- *Renewables Researcher*
- *ASME Journal Author*
- *ASME Journal Reviewer*
- *ASME Member*
- *ASME – IGTI SAC Member*

Personal Skills

- Leadership
- Teamwork
- Creativity
- Innovation
- Self Motivation
- Self-Learning
- Self-awareness
- Honesty
- Negotiation
- Social skills
- Confidence
- Flexibility

Personal Info

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 https://www.researchgate.net/profile/Taha_Sherif

Working Experience

Organization Faculty of Engineering - Menoufia University
Role Assistant Lecturer and Researcher in Renewable Energy Technologies and Dynamics of Composite Structures
Date 29/11/2018 - **Still date**

Academic Info

Doctor of Philosophy in Engineering (Ph.D. Eng.) Degree

Affiliation Faculty of Engineering, Menoufia University
Department Production Engineering and Mechanical Design
Thesis Title Sustainability of Modern Vertical-Axis Wind Turbine Composite Blades
From March 2022 to July 2025 (Expected)
Grade Excellent (3.70 on a scale of 4.00)

Master of Science in Engineering (M.Sc. Eng.) Degree

Affiliation Faculty of Engineering, Menoufia University
Department Production Engineering and Mechanical Design
Thesis Title Dynamic Analysis of Vertical Axis Wind Turbine (VAWT) Composite Blades
From October 2018 to January 2021
Grade Excellent (3.80 on a scale of 4.00)

Bachelor of Science in Engineering (B.Sc. Eng.) Degree

From October 2013 to July 2018
General Grade Very Good
Graduation Project (Wind - Solar) Hybrid Energy Systems
Project Grade Excellent

Research Achievements

- [1] "Fatigue-Life Prediction of the Optimized Savonius Vertical-Axis Wind Turbine Composite Blades", [ASME. J. Energy Resour. Technol. July 2024, ; 146(7): doi: <https://doi.org/10.1115/1.4065204>]
- [2] "Fatigue-Life Estimation of Vertical-Axis Wind Turbine Composite Blades using Modal Analysis," [ASME. J. Energy Resour. Technol. March 2024; 146(3): 031301, <https://doi.org/10.1115/1.4064178>]
- [3] "Dynamic Analysis of the Optimized Savonius Vertical Axis Wind Turbine Composite Blades", [J. Sol. Energy Eng. Trans. ASME, Vol.143, Issue:5, p. 054502, 2021, <https://doi.org/10.1115/1.4050519>]
- [4] "Modeling and Optimization for the Dynamic Performance of VerticalAxis Wind Turbine Composite Blades", [J. Sol. Energy Eng. Trans. ASME, Vol.143, Issue:2, p. 021005, 2021, <http://doi.org/10.1115/1.4048159>]
- [5] "Dynamic Analysis of Darrieus Vertical Axis Wind Turbine Composite Blades" International Journal of Mechanical and Production Engineering (IJMPE), Vol. 8 (6),2020



Fields Of Interest

- Renewable EnergyEngineering
- Sustainability
- Wind Energy
- Modern Vertical-Axis Wind Turbine Design
- Solar Energy
- Dynamic Analysis of Composite Structures
- Optimization Techniques
- Modelling techniques
- Finite ElementAnalysis (FEA)
- Rapid Prototyping Techniques (RPT)
- Reverse Engineering
- CAD/CAM/CAE
- Fatigue of Composites
- Mechatronics SystemDesign



Peer-Review Activities

- *ASME- IGTI Reviewer and ASME SAC student liaison for Wind Energy Committee: International conference of TURBO-EXPO 2024, London.*
- *Review of Two papers, (1 paper) made for the American Journal of Science, Engineering, and Technology and (1 paper) for the American Journal of Modern Physics.*
- *ASME Journal Reviewer: Journal of Solar Energy Engineering*
- *ASME Journal Reviewer: Journal of Open Engineering*
- *ASME- IGTI Reviewer: International conference of TURBO-EXPO 2023, Boston.*
- *Review of a research paper for the ASME-IGTI 2023 and ASME-IGTI 2024 Conference and Turbomachinery Journal (ASME Transactions).*
- **Section Editor** of the Energy Materials Section of the Journal of Materials Physics and Chemistry
- **Governor** of the [ASME Elevator Competition](#) at the ASME E-Fest 2023 held at the American University in Cairo (AUC).



Research Awards

- **Selected for ASME-IGTI SACTA Award 2023.**
- *Elected from my university council/committee to pursue the award of the **best research award announced** by the **Association of Arab Universities** in 2023 (Prince Mohamed bn Fahd Award for the Best Research in **Sustainable Development (Renewable Energy)**)*
- *Elected from my university council/committee to pursue the award of the **best Master Thesis** announced by the **Association of Arab Universities** in 2022*
- Supervision of the [Menoufia Team](#), who participated in the **Green Energy Sprint** Competition at **ASME E-Fest 2023** in **AUC** (winning the **Best Design Award** for **Green Vehicles** and the **2nd place award** in the competition).
- Selected as the [ASME-IGTI SAC 2023 and 2024 Student Liaison and reviewer](#) for **Wind Energy Committee**



Software Skills

- SolidWorks Package



- Microsoft Office



- Minitab Software



- ANSYS



- JMP Software



- MSC PATRAN



- Helius Composite



- MATLAB



Social Contribution & Activities

Sharing culture and scientific knowledge of **Renewables and ASME Activities** with the audience of several **media agencies**:

- The Egyptian Channel One [\[https://fb.watch/l8wlQoD-Sr/?mibextid=6aamW6\]](https://fb.watch/l8wlQoD-Sr/?mibextid=6aamW6)
- Madraseta Channel [\[https://youtu.be/7VJz6JjTbkk\]](https://youtu.be/7VJz6JjTbkk)
- Several Egyptian Newspapers [[ASME E-Fest.pdf](#)]
- **Speaker at the first scientific air defense forces forum :**
<https://fb.watch/oMkGrijJXy/?mibextid=RUBz1f>



Co-Supervision Of Graduation Projects

- Design and Analysis of Vertical Axis Wind Turbine Composite Blades
- Composite Materials Testing and Manufacturing
- Fatigue Life Prediction of Composite Materials.
- Mechatronics System Design of Industrial Robotic Arm
- Fatigue Testing Machine
- Torsion Testing Machine
- Dual Solar Tracker Mechanism



Teaching Courses

Course delivered	Academic Department
▪ Engineering Drawing	▪ Basic Sciences
▪ Computer Aided-Engineering Drawing	▪ Basic Sciences
▪ Drawing and Machine Construction	▪ Production Engineering
▪ Machine Drawing	▪ Mechatronics
▪ Theory of Machines	▪ Power engineering
▪ Advanced Theory of Machines	▪ Mechatronics
▪ Material Handling System Design (MHSD)	▪ Production engineering
▪ Mechanics of Failure and Stress Analysis	▪ Production engineering
▪ Dynamic of Machines	▪ Production engineering
▪ Fundamentals of Mechatronics	▪ Mechatronics
▪ Mechatronic System Design	▪ Mechatronics
▪ Mechanical Vibrations	▪ Power engineering
▪ Mechatronics in Automotive Engineering	▪ Mechatronics



Training Sessions

Year	Category	Year	Category
2018	3D Printing Technology	2017	Training on Punching, Milling and Turning CNC Machines
2017	Off grid & Solar pumping systems design and installation	2016	Quality Control at production lines



Administration Activities & Roles

- Member of the committee responsible for the preparation of courses' syllabus of the undergraduate bachelor's degree for the Material and Manufacturing Program at the national Menoufia University.
- [Member of the committee responsible for the preparation of laboratory requirements for the Material and Manufacturing Program](#)
- Quality Assurance Member and Control Member for 3 different undergraduate Exam Organizing Committees

