

Curriculum Vitae

Personal data

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Citizenship	: Egyptian	
Birth Date	: May 20 th , 1976	
Marital Status	: Married	
Webpage (1)	: http://www.aun.edu.eg/membercv.php?M_ID=853	
Webpage (2)	: https://scholar.google.com.eg/citations?hl=en&user=l2Chc14AAAAJ	
Google Scholar	: https://www.researchgate.net/profile/Abdelrasoul_Gad	
Research Gate	: https://faculty.mu.edu.sa/agadelmoula	

Current Position

Professor	: Mechanical Design and Production Engineering Department, Faculty of Engineering, Assiut University, Egypt (on leave)
Associate Professor	: Department of Mechanical and Industrial Engineering, College of Engineering, Majmaah University, Saudi Arabia

Education

PhD in Mechanical Engineering, July 2008

School of Mechanical Engineering, Yonsei University, Seoul 120-749, South Korea.

Thesis title: Axial Vibration Suppression of a High Speed Rotating Flexible Disk Using a Flat-type Rotating Stabilizer.

Supervisor: Prof. Yoon Chul Rhim

MSc. in Mechanical Engineering, July 2004

Department of Mechanical Engineering, Assiut University, Assiut 71516, Egypt.

Thesis title: Study of Parameters Influencing Design Factors of Oil-Lubricated Herringbone Grooved Journal Bearings.

Supervisor: Prof. Abo Bakr M. Nasr, Prof. Aboel Makarem A. Khalil, Prof. Mahmoud M. Nemat-Allah.

BSc. in Mechanical Engineering, May 2000

Department of Mechanical Engineering, Assiut University, Assiut 71516, Egypt.

Project title: Design and Production of Semi-conical Metal Shells using Maslennikov's Process.

Supervisor: Prof. Mohamed Gad Al-Sebaie

Academic record

- February 2024 ~ Now : Professor, Assiut University, Egypt
- February 2017 ~ Now : Associate Professor, Majmaah University, Saudi Arabia.
- May 2016 ~ January 2024 : Associate Professor, Assiut University, Egypt

- Nov. 2014 ~ May 2016 : Assistant Professor, Assiut University, Egypt
- Nov. 2012 ~ Nov. 2014 : JSPS Postdoctoral fellow, The University of Tokyo, Japan
- March 2010 ~ Nov. 2012 : Assistant Professor, Assiut University, Egypt
- Sep. 2008 ~ March 2010 : Postdoctoral Fellow, CISD, Yonsei University, South Korea
- March 2005 ~ July 2008 : Researcher and Teaching Assistant (Yonsei University- South Korea)
- June 2004 ~ February 2005 : Assistant Lecturer (Assiut University, Egypt)
- December 2001 ~ June 2004 : Researcher and Teaching Assistant (Assiut University, Egypt)
- September 1995 ~ May 2000 : BSc. in Mechanical Engineering (Assiut University, Egypt)

Research interests

- Tribology
- Friction and wear of polymer composites
- Additive manufacturing
- Design of sliding bearings
- Fluid-structure interaction
- Hydrodynamic lubrication
- Rotor dynamics

Awards and honors

- Japan Society for the Promotion of Science (JSPS) fellowship, 2012.
- Marquis WHO's WHO in the World Award, 27th Edition, 2010.
- HRD Program for Nano/Micro Mechanical Engineering Award, February 2009.
- Asia/Pacific Data Storage Conference APDSC08, Outstanding Poster Award.
- BK21 (Brain Korea) Fellowship, August 2008.
- Korea Research Foundation (KRF) Fellowship, March 2006.
- Yonsei University Graduate Scholarship (as an International Student), March 2005.
- Top Student Award in Mechanical Engineering, Egypt Engineering Syndicate, 2001.

Scientific and professional memberships

- ASME (American Society of Mechanical Engineers) member since 2009.
- SISS (Society of Information Storage Systems) member, South Korea.
- EGS member (Egypt Engineering Syndicate)

Research Experience

- Friction and wear of polymers and polymer composites
- Additive manufacturing of polymeric objects with FDM and SLS.
- Design of bump-type foil bearings for high speed turbomachinery applications.
- Fluid-structure interaction applied for the design of next generation high-speed flexible optical disk system (FODs) for broadcast archival data storage.
- Design of the herringbone-grooved bearings for the hard disk drive (HDD) spindle motor.
- Design of spiral grooved thrust bearings.
- Design of hydrodynamic, aerodynamic, hydrostatic, and elastohydrodynamic bearings for various engineering applications.
- Performing noise and vibration measurements using LDV, FFT, and Laser Gap sensors.
- Performing numerical simulations with FDM, FVM using FORTRAN programming language.

Teaching Experience

1- Undergraduate courses

Mechanics of Materials	: Majmaah University, Saudi Arabia
Mechanical Design	: Majmaah University, Saudi Arabia
Design of Machine Elements	: Majmaah University, Saudi Arabia
Mechanical Engineering Drawing	: Majmaah University, Saudi Arabia
Fault Diagnosis of Mechanical Systems	: Majmaah University, Saudi Arabia
Tribology	: Majmaah University, Saudi Arabia
Senior Design Project	: Majmaah University, Saudi Arabia
Engineering Numerical Analysis	: Yonsei University, South Korea
Mechanical Vibrations	: Assiut University, Egypt
Machine Design	: Assiut University, Egypt
Mechanics of Machinery	: Assiut University, Egypt
Stresses Analysis	: Assiut University, Egypt
Metal Forming	: Assiut University, Egypt
Machine Drawing and Construction	: Assiut University, Egypt
Robotics and Automation	: Assiut University, Egypt
Mechanical Engineering Lab.	: Assiut University, Egypt
Ethics of Engineering Profession	: Assiut University, Egypt
Design of Machine Elements	: Al Azhar University, Egypt
Theory of Metal Cutting	: Sohag University, Egypt

2- Graduate courses:

Fluid-Structure Interaction	: The University of Tokyo, Japan
Advanced Lubrication Theory	: Assiut University, Egypt
Advanced topics in biomechanics	: Assiut University, Egypt
Welding inspection	: Assiut University, Egypt
Advanced topics in welding technology	: Sohag University, Egypt
Casting technology	: Sohag University, Egypt

3- Students' graduation projects:

#	Project title	Academic year	Students/Institution
1.	Design and production of a vacuum drying unit for fruit juice.	2010 / 2011	4 students, Design and Production Engineering, Assiut University.
2.	Design and production of a spray drying unit.	2011 / 2012	15 students, Design and Production Engineering, Assiut University.
3.	Enhancing the extraction efficiency of cane sugar	2015 / 2016	Sugar Technology Research Institute, Assiut University.
4.	Design and manufacturing of a cylindrical configuration robot for handling hazardous chemicals	2016 / 2017	2 students, Department of Mechanical and Industrial Engineering, Majmaah University, Saudi Arabia
5.	Design and fabrication of passive assistive	2018/2019	1 student, Department of Mechanical and

exoskeleton for lower limb		Industrial Engineering, Majmaah University, Saudi Arabia
6. Effect of reinforcement on the tribological properties of graphite-filled polyamide 12 composite manufactured by injection molding process	2020/2021	5 students, Department of Mechanical and Industrial Engineering, Majmaah University, Saudi Arabia
7. Friction and Wear Characteristics of Glass Beads-filled Nylon 12 Composite Manufactured by Selective Laser Sintering (SLS) Technique	2022/2023	4 students, Department of Mechanical and Industrial Engineering, Majmaah University, Saudi Arabia

Languages

Arabic : Native Language

English : Read, Write, Speak (fluently)

Selected Publications

Participation in Book Chapter :

1. **Gad, A.M.**, Kaneko, S. (2015). Fluid Flow and Thermal Features of Gas Foil Thrust Bearings at Moderate Operating Temperatures. In: Mechanisms and Machine Science, vol 21. Springer, Switzerland. https://doi.org/10.1007/978-3-319-06590-8_100

Journal Articles:

2. **Gadelmoula, A.**; Aldahash, S.A (2023). Dry Friction and Wear Behavior of Laser-Sintered Graphite/Carbon Fiber/Polyamide 12 Composite. Polymers, Vol. 15 (19): 3916. <https://doi.org/10.3390/polym15193916>
3. **Gadelmoula, A.**, Aldahash SA (2023). Effect of Reinforcement with Short Carbon Fibers on the Friction and Wear Resistance of Additively Manufactured PA12. Polymers, Vol. 15 (15): 3187. <https://doi.org/10.3390/polym15153187>
4. **Gadelmoula, A.**, Aldahash SA (2023). Tribological Properties of Glass Bead-Filled Polyamide 12 Composite Manufactured by Selective Laser Sintering. Polymers, Vol. 15 (5): 1268. <https://doi.org/10.3390/polym15051268>
5. Salman, S., Hassanein, O., Anavatti, S., **Gadelmoula, A** (2021). Gain-Scheduled Level Controller for FESTO MPS PA Station Tank. International Journal on Engineering Applications (IREA), Vol. 9 (6); pp. 353-360. <https://doi.org/10.15866/irea.v9i6.20191>
6. Aldahash, S. A., Salman, S. A., **Gadelmoula, A. M.** (2020), Towards Selective Laser Sintering of Objects with Customized Mechanical Properties Based on ANFIS Predictions, Journal of Mechanical Science and Technology, Vol. 43 (12); pp 5075-5084. <https://doi.org/10.1007/s12206-020-1111-6>
7. Aldahash, S. A., **Gadelmoula, A.M.** (2020). Orthotropic properties of cement-filled polyamide12 manufactured by selective laser sintering. Rapid Prototyping Journal, Vol. 26 (6); pp 1103-1112. <https://doi.org/10.1108/RPJ-07-2019-0191>
8. **Abdelrasoul M. Gadelmoula** and Saleh A. Aldahash (2019). Effects of Fabrication parameters on the properties of parts manufactured with selective laser sintering: application on cement-filled PA12. Advances in Materials Science and Engineering, Vol. 2019: 8404857. <https://doi.org/10.1155/2019/8404857>
9. Mohamed Adel, Osama Abdelaal, **Abdelrasoul Gad**, Abu Bakr Nasr, AboelMakaram Khalil (2018). Polishing of fused deposition modeling products by hot air jet: Evaluation of surface roughness. Journal of Materials Processing Technology, Vol. 251; pp. 73-82. <https://doi.org/10.1016/j.jmatprotec.2017.07.019>
10. **Abdelrasoul M. Gad** (2017). On the performance of foil thrust bearing with misaligned bearing runner. Journal of Industrial Lubrication and Tribology, Vol. 69 (2); pp.105-115. <https://doi.org/10.1108/ILT-11-2015-0177>
11. **Abdelrasoul M. Gad** and Shigehiko Kaneko (2016). Tailoring of the Bearing Stiffness to Enhance the

- Performance of Gas-Lubricated Bump-Type Foil Thrust Bearing. Proc IMechE part J: Journal of Engineering Tribology, Vol. 230 (5); pp. 541-560. <https://doi.org/10.1177/1350650115606482>
12. **Abdelrasoul M. Gad** and Shigehiko Kaneko (2015). Performance characteristics of gas-lubricated bump-type foil thrust bearing. Proc IMechE part J: Journal of Engineering Tribology, 2015; Vol. 229 (6): pp. 746-762. <https://doi.org/10.1177/1350650114564709>
 13. **Abdelrasoul M. Gad** and Shigehiko Kaneko (2014). A New Structural Stiffness Model for Bump-type Foil Bearings: Application to Generation II Gas Lubricated Foil Thrust Bearing. ASME Journal of Tribology, Vol. 136 (4): 041701-1-041701-13. <https://doi.org/10.1115/1.4027601>
 14. Ki Wook Song, **Abdelrasoul M. M. Gad**, and Yoon Chul Rhim (2011). Design of a curved stabilizer with damping orifices for reducing axial run-out of flexible optical disks. Journal of Microsystem Technol, Vol. 17; pp. 991-996. <https://doi.org/10.1007/s00542-011-1242-x>
 15. **Abdelrasoul M. M. Gad** and Yoon Chul Rhim (2010). Towards a Flat Rotating Flexible Disk for High Speed Optical Data Storage. Japanese Journal of Applied Physics, Vol. 49: 08KC01. <https://dx.doi.org/10.1143/JJAP.49.08KC01>
 16. **Abdelrasoul M. M. Gad** and Yoon Chul Rhim (2010). Passive Damping of the Axial Run-out for High Speed Rotating Flexible Disk Using the Idea of Damping Orifice. Japanese Journal of Applied Physics, Vol.49: 08KC03. <https://dx.doi.org/10.1143/JJAP.49.08KC03>
 17. **A. M. Gad** and Y. C. Rhim (2009). Axial Run-out of a Spinning Flexible Disk Close to Rotating Rigid Wall. IEEE Transactions on Magnetics, Vol. 45 (5); pp. 2186 – 2189. <https://doi.org/10.1109/TMAG.2009.2016127>
 18. M. Nemat-Alla, **A. M. Gad**, A. A. Khalil and A. M. Nasr (2009). Static and Dynamic Characteristics of Oil - Lubricated Beveled-Step Herringbone Grooved Journal Bearings. ASME Journal of Tribology, Vol. 131 (1): 011701. <https://doi.org/10.1115/1.2908903>
 19. **Abdelrasoul M. M. Gad** and Yoon Chul Rhim (2009). Experimental and Numerical Study on the Dynamic Behavior of a Spinning Flexible Disk close to a Rotating Rigid Wall. Japanese Journal of Applied Physics, Vol. 48 (3): 03A022. <https://dx.doi.org/10.1143/JJAP.48.03A022>
 20. **Abdelrasoul M. M. Gad** and Yoon Chul Rhim (2008). Numerical Simulations of a Flexible Disk Rotating Close to a Rigid Rotating Wall. Japanese Journal of Applied Physics, Vol. 47 (7B); pp. 5835-5841. <https://dx.doi.org/10.1143/JJAP.47.5835>
 21. **Abdelrasoul M. M. Gad** and Yoon Chul Rhim (2008). Study of a Flexible Disk Rotating close to a Rigid Rotating Wall Considering Fluid Inertia Effects. Journal of Sound and Vibration, Vol. 317 (3); pp. 473-489. <https://doi.org/10.1016/j.jsv.2008.05.035>
 22. **A. M. Gad**, M. Nemat-Alla, A. A. Khalil and A. M. Nasr (2006). On the Optimum Groove Geometry for Herringbone Grooved Journal Bearings. ASME Journal of Tribology, Vol. 128 (3); pp. 585-593. <https://doi.org/10.1115/1.2197524>
 23. **Abdelrasoul M. M. Gad** and Yoon Chul Rhim (2009). Experimental and Numerical Study on an Air-Stabilized Flexible Disk Rotating Close to a Rigid Disk. Transactions of the Society of Information Storage Systems (SISS), Vol.5 (1), 2009.
 24. **Abdelrasoul M. Gad** (2016). Effect of Misalignment on the Durability of Gas-lubricated Foil Thrust Bearing. Journal of Engineering Sciences, Vol. 44 (1); pp. 73-90. <https://dx.doi.org/10.21608/jesaun.2016.117588>
 25. Shuaiby M. Shuaiby, M. A. Hassan, Abdel-Badie Sharkawy and **Abdel-Rasoul M. M. Gad** (2013). A finite Element Model for the Electrical Activity in Human Cardiac Tissues. Journal of Ecology of Health & Environment, Vol. 1, No. (1); pp. 33-41. <http://dx.doi.org/10.12785/jehe/010104>
 26. M. Adel, Osama, **Abdelrasoul Gad**, Abu Bakr, Aboel Makaram (2017). Enhancing the surface roughness of fused deposition modeling products. Journal of Engineering Sciences, Vol. 45 (3); pp. 324-332. <https://dx.doi.org/10.21608/jesaun.2017.116272>
 27. Mark Adel, Khalil Ibrahim, **Abdel-Rassoul Gad**, Abo El-Makarem Khalil (2016). Development of dynamic

model for vibration control using finite element analysis. Journal of Engineering Sciences, Vol. 44 (5); pp. 555-563. <https://dx.doi.org/10.21608/jesaun.2016.117616>

International Conferences

1. **Abdelrasoul M. Gad** and Shigehiko Kaneko, "Fluid Flow and Thermal Features of Gas Foil Thrust Bearings at Moderate Operating Temperatures," Proceedings of the 9th IFToM-ICORD 2014, Sep. 22 – 25, Milan, Italy.
2. **Abdelrasoul M. Gad** and Shigehiko Kaneko, "CFD-Based Design and Performance Characteristics of Generation II Foil Thrust Bearing for Microturbomachinery Applications," Proc of ISROMAC-15, Feb 24 - 28, 2014, Honolulu, HI, USA.
3. Ki Wook Song, **Abdelrasoul M. M. Gad**, and Yoon Chul Rhim, "Design of a curved stabilizer with damping orifices for reducing axial run-out of flexible optical disks", 20th annual symposium on information storage and processing systems, Santa Clara, CA, USA, 14-15 June, 2010.
4. **Abdelrasoul M. M. Gad** and Yoon Chul Rhim, "Noise and Vibration Issue in Home Appliances", International Conference of Noise Control in Building and Construction Site, November 23 – 24, 2009, Gwangju, South Korea.
5. **Abdelrasoul M. M. Gad** and Yoon Chul Rhim, "Towards a Flat Rotating Flexible Disk for High Speed Optical Data Storage", Proceedings of the International Symposium on Optical Memory (ISOM 2009), October 4 - 8, 2009, Nagasaki, Japan.
6. **Abdelrasoul M. M. Gad** and Yoon Chul Rhim, "Passive-damping of the Axial Run-out for High Speed Rotating Flexible Disk Using the Idea of Damping Orifice", Proceedings of the International Symposium on Optical Memory (ISOM 2009), October 4 - 8, 2009, Nagasaki, Japan.
7. **Abdelrasoul M. M. Gad** and Yoon Chul Rhim, "Analysis of a Flexible Disk System with Stabilizer", 16th International Workshop on Information Storage Device, December 19, 2008, Jeju-island, Korea.
8. **Abdelrasoul M. M. Gad** and Yoon Chul Rhim, "On the Axial Run-out of a Spinning Flexible Disk Close to a Flat-type Rotating Rigid Wall", Proceedings of the Asia-Pacific Data Storage Conference 2008 (APDSC08), December 15-17, 2008, Jeju-island, Korea.
9. Jong Soo Lee, **Abdelrasoul M. M. Gad**, Jun Ho Seo, and Yoon Chul Rhim, "Stabilizer Design for a Flexible Disk Considering Static Deformation ", Proceedings of the Asia-Pacific Data Storage Conference 2008 (APDSC08), December 15-17, 2008, Jeju-island, Korea.
10. Ki Wook Song, **Abdelrasoul M. M. Gad**, Jun Ho Seo, and Yoon Chul Rhim, "Deformation Analysis of a PC Disk in a Cabinet due to the Pressure Difference ", Proceedings of the Asia-Pacific Data Storage Conference 2008 (APDSC08), December 15-17, 2008, Jeju-island, Korea.
11. **Abdelrasoul M. M. Gad** and Yoon Chul Rhim, "Experimental and Analytical Study on the Dynamic Behavior of a Spinning Flexible Disk close to a Rotating Rigid Wall ", Proceedings of the International Symposium on Optical Memory and Optical Data Storage (ISOM-ODS-2008), July 13-17, 2008, Waikoloa, Hawaii, USA.
12. **Abdelrasoul M. M. Gad** and Yoon Chul Rhim, "Numerical Simultaions of a Flexible Disk Rotating Close to a Rigid Rotating Wall", Proceedings of the International Symposium on Optical Memory (ISOM 2007), October 21-25, 2007, Singapore.
13. **A. M. Gad**, M. Nemat-Alla, A. A. Khalil and A. M. Nasr. "Beveled-Step Herringbone Grooved Journal Bearings", The 7th Production Engineering and Design for Development conference (PEDD7), Ain Shams University, Cairo, Egypt, February 2006.
14. **A. M. Gad**, M. Nemat-Alla, A. A. Khalil and A. M. Nasr. "Static Characteristics of Oil - Lubricated Beveled-Step Herringbone Grooved Journal Bearings", Proceeding of the International Mechanical Engineering Conference and Expo 2004, Kuwait, December 5 – 8, 2004.
15. **A. M. Gad**, M. Nemat-Alla, A. A. Khalil and A. M. Nasr. "Dynamic Characteristics of Oil - Lubricated Beveled-step Herringbone Grooved Journal Bearings", Proceeding of the International Mechanical Engineering Conference and Expo 2004, Kuwait, December 5 – 8, 2004.

16. **A. M. Gad**, M. Nemat-Alla, A. A. Khalil and A. M. Nasr. "Influence of Groove Geometry on the Performance of Oil-Lubricated Herringbone Grooved Journal Bearings". Proceeding of the 4th Mansora International Engineering Conference (4th MIEC), April 2004.

Domestic Conferences:

1. Abdulrahman Alqashami, Faisal Alhuqayl, Muath Alsaweed, Mansour Al khateeb, **Abdelrasoul M Gadelmoula**. Friction and Wear Characteristics of Glass Beads-filled Nylon 12 Composite Manufactured by Selective Laser Sintering (SLS) Technique. The Engineering Forum for Renewable Energy (EFRE), Majmaah University, 2023.
2. **Abdelrasoul M. Gad** and Shigehiko Kaneko, " Prediction of the Elastoaerodynamic Behavior of Compliant Foil Thrust Bearing Using a New Bump Foil Model," Proc. of JSME Dynamics & Design Conference, Fukuoka, Japan , August 26-30, 2013.
3. **Abdelrasoul M. M. Gad** and Yoon Chul Rhim, "Dynamic Behavior of a Spinning Flexible Disk near a Rigid Rotating Stabilizer ", Proceedings of the Society of Information Storgae Systems (SISS), December 18, 2008, Jeju-island, Korea.
4. Jong Soo Lee, **Abdelrasoul M. M. Gad**, Jun Ho Seo, and Yoon Chul Rhim, "Design of a Stabilizer using the Deformation Curve of a Flexible Disk ", Proceedings of the Society of Information Storgae Systems (SISS), December 18, 2008, Jeju-island, Korea.
5. Ki Wook Song, **Abdelrasoul M. M. Gad**, Jun Ho Seo, and Yoon Chul Rhim, "Warping of a PC Disk with High Speed Rotation in a Narrow Cavity ", Proceedings of the Society of Information Storgae Systems (SISS), December 18, 2008, Jeju-island, Korea.
6. **Abdelrasoul M. M. Gad** and Yoon Chul Rhim, "On the Axial Vibration Suppression of a Rotating Flexible Disk Close to a Rotating Rigid Wall", Proceedings of the Society of Information Storgae Systems (SISS), August 21, 2008, Yonsei University.
7. **Abdelrasoul M. M. Gad** and Yoon Chul Rhim, "Numerical Simultaions of a Flexible Disk Rotating Close to a Rigid Wall", Proceedings of the Society of Information Storgae Systems (SISS), August 30, 2007, Yonsei University.

Invited talks:

- Tribology Science: Towards A Better Understanding, Reliable Design, and Consumer Satisfaction. Nagoya city Koyo High School, Nagoya, Japan, December 2013.
- Noise and Vibration Issue in Home Appliances, International Conference of Noise Control in Building and Construction Site, Gwangju, South Korea, Nov. 23 – 24, 2009.

Research Projects

Project title	Funding institution
1. Gas Foil Thrust Bearing for Oil-free Micro Turbomachinery Applications	The University of Tokyo, Japan
2. Next Generation Flexible Optical Disk (FOD) System.	Yonsei University, South Korea
3. HLDS (Hitachi - LG Data Storage) Noise and Vibration in ODD.	Yonsei University, South Korea
4. Stabilizer Design for Flexible Optical Disk System.	Yonsei University, South Korea
5. Effects of Fabrication Parameters on the Properties of Parts Manufactured with Selective Laser Sintering	Majmaah University, KSA
6. Orthotropic properties of cement filled PA12 manufactured by SLS	Majmaah University, KSA
7. Advanced manufacturing research group	Majmaah University, KSA
8. A Methodology for Monitoring Noise Pollution and Assessment of its	Majmaah University, KSA

- Environmental Impacts: Application on Industrial Zone at KSA
9. Tribological Properties of Glass Bead-Filled Polyamide 12 Composite Manufactured by Selective Laser Sintering Majmaah University, KSA
 10. Effect of Reinforcement with Short Carbon Fibers on the Friction and Wear Resistance of Additively Manufactured PA12. Polymers Majmaah University, KSA
 11. Dry Friction and Wear Behavior of Laser-Sintered Graphite/Carbon Fiber/Polyamide 12 Composite Majmaah University, KSA

Research activities as a supervisor:

- Shuaiby M. Shuaiby, M. A. Hassan, Abdel-Badie Sharkawy and **Abdel-Rasoul M. M. Gad**. Formulation, modeling, and simulation of the excitation propagation in human cardiac tissues using finite element method. MSc thesis, Faculty of Engineering, Assiut University, 2009-2013.
- Mohamed Adel, Osama Abdelaal, **Abdelrasoul Gad**, Abu Bakr Nasr, AboelMakaram Khalil. Enhancing the surface roughness of fused deposition modeling products using hot air. MSc thesis, Faculty of Engineering, Assiut University, until May 2017.
- Mark Adel, Khalil Ibrahim, **Abdel-Rassoul Gad**, Abo El-Makarem Khalil. Vibration control analysis through simulated model of a flexible beam. MSc thesis, Faculty of Engineering, Assiut University, 2014-2018.

Research activities as a reviewer:

Journal/International conference

1. Tribology International
2. Journal of Fluids and Structure
3. Journal of Engineering Tribology
4. JSME Journal of Advanced Mechanical Design, Systems, and Manufacturing (Machine Design & Tribology)
5. 9th IFToMM International Conference on Rotor Dynamics, ICORD2014, Sep. 22-25, Milan, Italy.
6. ASME Pressure vessels & Piping Conference, ASME-PVP-2014, July 20-24, California, USA.
7. Journal of Engineering and Applied Sciences, Majmaah University

Received training:

	Training course title	Duration	Institution
1.	Teaching large classes and micro teaching	9/10/2004 - 10/10/2004	FLDC, Assiut University
2.	International publishing of research	6/03/2010 - 8/03/2010	FLDC, Assiut University
3.	How to compete for a research fund	9/03/2010 - 11/03/2010	FLDC, Assiut University
4.	Research team management	13/03/2010 - 15/03/2010	FLDC, Assiut University
5.	Quality standards in teaching	20/03/2010 - 22/03/2010	FLDC, Assiut University
6.	E-Learning	23/03/2010 - 25/03/2010	FLDC, Assiut University
7.	Strategic planning	17/04/2010 - 19/04/2010	FLDC, Assiut University
8.	Communication skills	10/04/2016 - 11/04/2016	FLDC, Assiut University
9.	Code of ethics	10/04/2016 - 11/04/2016	FLDC, Assiut University
10.	Credit hours system	17/04/2016 - 18/04/2016	FLDC, Assiut University
11.	Effective presentation	19/04/2016 - 20/04/2016	FLDC, Assiut University
12.	Student evaluation	24/04/2016 - 25/04/2016	FLDC, Assiut University
13.	Advanced E-Learning	3/05/2016 - 4/05/2016	FLDC, Assiut University
14.	Research Ethics	12/06/2023 - 13/06/2023	FLDC, Cairo University
15.	Legal and Financial Aspects in University Environment	14/06/2023 - 15/06/2023	FLDC, Cairo University
16.	Item Bank	17/07/2023 - 18/07/2023	FLDC, Cairo University

17. Use of Technology in Teaching	19/07/2023 - 20/07/2023	FLDC, Cairo University
18. Stress Management	24/07/2023 - 25/07/2023	FLDC, Cairo University
19. Fundamentals of Digital Transformation (Web search)	15/07/2023 - 17/07/2023	FLDC, Assiut University

Work experience:

- External evaluator of academic programs for national/international accreditation.
- Advisory board member, Department of Mechanical and Industrial Engineering (Majmaah University, Saudi Arabia) since 2020.
- Member of Engineering Studies and Consultancy Center (Assiut University, Egypt)
- Head of Quality Assurance Unit, College of Engineering (Majmaah University, Saudi Arabia)
- Head of Program Study Plan committee since 2017, Department of Mechanical and Industrial Engineering (Majmaah University, Saudi Arabia)
- Member of Program Study Plan Unit since 2017, College of Engineering (Majmaah University, Saudi Arabia)
- Member of Academic Accreditation Unit since 2018, College of Engineering (Majmaah University, Saudi Arabia)
- Head of Alumni Unit (2018-2019), College of Engineering (Majmaah University, Saudi Arabia)
- Quality Coordinator for ABET accreditation of Mechanical Engineering Program, Department of Mechanical and Industrial Engineering, 2018 (Majmaah University, Saudi Arabia)
- Quality Coordinator for NCAAA accreditation of Mechanical Engineering Program, Department of Mechanical and Industrial Engineering, 2022 (Majmaah University, Saudi Arabia)
- Quality Coordinator for NARS accreditation of Mechanical Design and Production Engineering Program, Department of Mechanical Engineering, 2011 (Assiut University, Egypt)
- Member of Laboratories and Scientific Equipment Unit, 2012, College of Engineering (Assiut University, Egypt)
- Member of Quality Steering Committee, College of Engineering, 2017-2022 (Majmaah University, Saudi Arabia)
- Member of Ethics of Scientific Research Unit, 2019-2021, College of Engineering (Majmaah University, Saudi Arabia)
- Member of Engineering Practice Committee, College of Engineering, 2019-2021 (Majmaah University, Saudi Arabia)