# CURRICULUM VITAE

## 1- Personal Details


**Name** : Dr. Abdelrasoul Gadelmoula
**Designation** : Associate Professor
**Date of Birth** : May 20, 1976
**Nationality** : Egypt
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## 2- Area of specialization:

| | |
|---|---|
| **Major** | Mechanical Engineering |
| **Minor** | Mechanical Design and Production Engineering |

## 3- Education & Qualifications

| Date | Degree | University name | Country | Title of the Dissertation |
|---|---|---|---|---|
| 2008 | Ph.D. | Yonsei University | S. Korea | Axial Vibration Suppression of a High Speed Rotating Flexible Disk Using a Flat-type Rotating Stabilizer. |
| 2004 | Master | Assiut University | Egypt | Study of Parameters Influencing Design Factors of Oil-Lubricated Herringbone Grooved Journal Bearings. |
| 2000 | Bachelor | Assiut University | Egypt | Design and Production of Semi-conical Metal Shells using Maslennikov's Process. |

## 4- Professional Activities:

| Job Title | Place | Country | From | To |
|---|---|---|---|---|
| Advisory Board Member & Secretary | MIE Department, Majmaah University | Saudi Arabia | June, 2019 | May 2021 |
| Coordinator of Program Study Plans Unit | College of Engineering, Majmaah University | Saudi Arabia | August 2023 | Now |
| Coordinator of Quality Assurance Unit | College of Engineering, Majmaah University | Saudi Arabia | September, 2018 | June 2023 |
| Coordinator of Alumni Unit | College of Engineering, Majmaah University | Saudi Arabia | September, 2018 | June 2019 |
| Coordinator of Quality Assurance & Academic Accreditation Committee | MIE Department, Majmaah University | Saudi Arabia | March, 2017 | Now |
| Coordinator of Program Study Plans Committee | MIE Department, Majmaah University | Saudi Arabia | March, 2017 | Now |

## 5- Teaching Experiences

| # | Teaching Experiences | University | From | To |
|---|---|---|---|---|
| 1. | Mechanics of Materials | : Majmaah University, Saudi Arabia | - | - |
| 2. | Mechanical Design | : Majmaah University, Saudi Arabia | - | - |
| 3. | Design of Machine Elements | : Majmaah University, Saudi Arabia | - | - |
| 4. | Mechanical Engineering Drawing | : Majmaah University, Saudi Arabia | - | - |
| 5. | Fault Diagnosis of Mechanical Systems | : Majmaah University, Saudi Arabia | - | - |
| 6. | Tribology | : Majmaah University, Saudi Arabia | - | - |
| 7. | Senior Design Project | : Majmaah University, Saudi Arabia | - | - |
| 8. | Engineering Numerical Analysis | : Yonsei University, S Korea | - | - |
| 9. | Mechanical Vibrations | : Assiut University, Egypt | - | - |
| 10. | Machine Design | : Assiut University, Egypt | - | - |

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| 11. | Mechanics of Machinery | : Assiut University, Egypt | - | - |
| 12. | Stresses Analysis | : Assiut University, Egypt | - | - |
| 13. | Metal Forming | : Assiut University, Egypt | - | - |
| 14. | Machine Drawing and Construction | : Assiut University, Egypt | - | - |
| 15. | Robotics and Automation | : Assiut University, Egypt | - | - |
| 16. | Mechanical Engineering Lab. | : Assiut University, Egypt | - | - |
| 17. | Ethics of Engineering Profession | : Assiut University, Egypt | - | - |
| 18. | Design of Machine Elements | : Al Azhar University, Egypt | - | - |
| 19. | Theory of Metal Cutting | : Sohag University, Egypt | - | - |
| 20. | Fluid-Structure Interaction | : The University of Tokyo, Japan | - | - |
| 21. | Advanced Lubrication Theory | : Assiut University, Egypt | - | - |
| 22. | Advanced topics in biomechanics | : Assiut University, Egypt | - | - |
| 23. | Welding inspection | : Assiut University, Egypt | - | - |
| 24. | Advanced topics in welding technology | : Sohag University, Egypt | - | - |
| 25. | Casting technology | : Sohag University, Egypt | - | - |

## 6- Areas of Specialization

| # | Areas of Specialization |
|---|---|
| 1 | Mechanical Design Engineering |
| 2 | Additive Manufacturing |
| 3. | Tribology |
| 4 | Friction and wear of polymer composites |
| 5 | Fluid-structure interaction |

## 7- Current membership in professional organizations

| # | Membership | ID |
|---|---|---|
| 1 | ASME (American Society of Mechanical Engineers) member | Since 2009 |
| 2 | SISS (Society of Information Storage Systems) member, South Korea, since 2008. | Since 2008 |
| 3 | EGS member (Egypt Engineering Syndicate) | Since 2000 |

## 8- Publications (Most important publications in the last 5 Years)

| # | Publications / Presentations | Journal (Conference) | Publishing Year (Conference Date) |
|---|---|---|---|
| 1 | Gadelmoula, A.; Aldahash, S.A (2023). Dry Friction and Wear Behavior of Laser-Sintered Graphite/Carbon Fiber/Polyamide 12 Composite. | Polymers | 2023 |
| 2 | Gadelmoula, A., Aldahash SA (2023). Effect of Reinforcement with Short Carbon Fibers on the Friction and Wear Resistance of Additively Manufactured PA12 | Polymers | 2023 |
| 3 | Gadelmoula, A., Aldahash SA (2023). Tribological Properties of Glass Bead-Filled Polyamide 12 Composite Manufactured by Selective Laser Sintering | Polymers | 2023 |
| 4 | S. S. Ahmed and A. M. Gadelmoula. Industrial noise monitoring using noise mapping technique: a case study on a concrete block-making factory | International Journal of Environmental Science and Technology | 2022 |
| 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) | 2021 |
| 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 | 2020 |

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|---|---|---|---|
| 7 | Aldahash, S. A., Gadelmoula, A.M. (2020). Orthotropic properties of cement-filled polyamide12 manufactured by selective laser sintering. | Rapid Prototyping Journal | 2020 |
| 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 | 2019 |
| 9 | Mohamed Adel, Osama Abdelaal, Abdelrasoul Gad, Abu Bakr Nasr, Aboel Makaram Khalil (2018). Polishing of fused deposition modeling products by hot air jet: Evaluation of surface roughness | Journal of Materials Processing Technology | 2019 |

## 9- MAJOR RESEARCH PROJECTS

| # | Research Project | Status (Now/Finished) | Funded by |
|---|---|---|---|
| 1. | Gas Foil Thrust Bearing for Oil-free Micro Turbomachinery Applications | Completed | The University of Tokyo, Japan |
| 2. | Next Generation Flexible Optical Disk (FOD) System. | Completed | Yonsei University, South Korea |
| 3. | HLDS (Hitachi - LG Data Storage) Noise and Vibration in ODD. | Completed | Yonsei University, South Korea |
| 4. | Stabilizer Design for Flexible Optical Disk System. | Completed | Yonsei University, South Korea |
| 5. | Effects of Fabrication Parameters on the Properties of Parts Manufactured with Selective Laser Sintering | Completed | Majmaah University, KSA |
| 6. | Orthotropic properties of cement filled PA12 manufactured by SLS | Completed | Majmaah University, KSA |
| 7. | Advanced manufacturing research group | Running | Majmaah University, KSA |
| 8. | A Methodology for Monitoring Noise Pollution and Assessment of its Environmental Impacts: Application on Industrial Zone at KSA | Completed | Majmaah University, KSA |
| 9. | Tribological Properties of Glass Bead-Filled Polyamide Composite Manufactured by Selective Laser Sintering | Completed | Majmaah University, KSA |
| 10. | Effect of Reinforcement with Short Carbon Fibers on the Friction and Wear Resistance of Additively Manufactured PA12. Polymers | Completed | Majmaah University, KSA |
| 11. | Dry Friction and Wear Behavior of Laser-Sintered Graphite/Carbon Fiber/Polyamide 12 Composite | Completed | Majmaah University, KSA |