



Haitham Mohammed Hadidi

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EDUCATION

- **Ph.D., Mechanical and Materials Engineering (Materials Engineering)** May 2019
University of Nebraska-Lincoln, NE, USA
- **M.S., Mechanical Engineering** May 2014
University of Dayton, Dayton, OH
- **B.S., Mechanical Engineering** June 2010
Jazan University, Gizan, Saudi Arabia
 - Graduated with honors: First Top Student (Excellent category with first class honor)

PROFESSIONAL APPOINTMENTS

- **Teaching Assistance**, *Dept. of Mechanical Engineering* Sep.2010 - Aug.2011
Jazan University, Gizan, Saudi Arabia
- **Lecturer**, *Dept. of Mechanical and materials Engineering* Aug. 2014 - July 2019
Jazan University, Gizan, Saudi Arabia
- **Teaching Assistance**, *Dept. of Mechanical and materials Engineering* Aug. 2015- May 2019
University of Nebraska-Lincoln, Lincoln, NE, USA
- **Lab Manager**, *Nebraska Engineering and Additive Technology (NEAT) Lab* Nov. 2018- April 2019
University of Nebraska-Lincoln, Lincoln, NE, USA
- **Assistant Professor**, *Dept. of Mechanical Engineering* July 2019 - present
Jazan University, Gizan, Saudi Arabia
- **Director for General Courses Unit**, *College of Engineering* July 2020 – Feb.2021
,Jazan University, Gizan, Saudi Arabia
- **Chair of Mechanical Engineering Department**, Feb. 2021 – Jan.2022
College of Engineering, Jazan University, Gizan, Saudi Arabia
- **Vice Dean of Academic Development Deanship**, Jan. 2022 – present
Jazan University, Gizan, Saudi Arabia

CERTIFICATIONS OR PROFESSIONAL REGISTRATIONS

- **Academic Leadership Diploma (King Abdullaziz University)** 2021
Jeddah, Saudi Arabia
- **ISO45001- Occupational Health and Safety Management System Auditor (IRCA)** 2022

HONORS/AWARDS

➤ **Academic/Leadership**

- Prince Mohammed Bin Nasser Academic Excellence/ Honor Award
 - Outstanding Undergraduate Student of the Year (First Top Student) May 2010
- First Class Honor (University First Top Undergraduate Student) in Mechanical Engineering Department, Jazan University, 2010
- Graduate Student Travel Grant, Solid Free Form Symposium. 2017

ADMINISTRATIVE EXPERIENCE

Jazan University, Jazan, Saudi Arabia

- (Member) Summer Training Evaluation Committee 2019
- (Member) Senior Projects Committee 2019,2020
- (Chair) Mechanical Engineering Dept. Lab Committee 2020
- (Member) Academic Advising Committee 2019-2021
- Undergraduate Senior Project Advisor 2020-current
- (Member) Engineering Lab's and Software's Committee 2020-2021
- (Member) Mechanical Engineering Dept. Scientific Committee 2020-2021
- Director of General Courses Unite at College of Engineering 2020-2021
- (Chair) General Engineering Academic Advisory Unit 2020-2021
- (Member and Rapporteur) College of Engineering Academic Committee 2020-2022
- (Member) College of Engineering Council/Board 2020-2022
- (Member) Scientific Research and Innovation Committee 2020-2021
- (Member) Education and E-Learning Committee 2020-2021
- (Member) Teaching Assistants and Lecturers Committee 2020-2021
- (Member) College of Engineering Academic Affairs Committee 2020-2022
- Chairman of Mechanical Engineering Department 2021-2022
- (Chair) Accreditation Board for Engineering and Technology (ABET) committee 2021-2022
- (Chair) Mechanical Engineering Department Industrial Advisory Committee 2021-2022
- (Member) Mechanical Engineering Post-graduate (Master) programs development and revision committee 2022
- Vice Dean of Academic Development Deanship Feb. 2022-current

➤ **University of Nebraska-Lincoln**, Lincoln, NE

- Co-Advisor (Mentor)
 - Additive Manufacturing Class Project Mentor 2017,2018
 - Undergraduate Senior Project Mentor 2018
- Lab Manager for Nebraska Engineering Additive Technology Lab January-May 2019

SERVICE

➤ Professional Development

- Participant in "Activating the initiative to institutionalize social responsibility in Saudi universities" workshop, April 2022.
- Participant in "Self quality program in the professional quality them", February,2022
- Participant in "Self quality program in the psychological quality them", February,2022
- Participant in "Self quality program in the health quality them", February,2022
- Member and participant in MASARAT (High School Future Plan Proposal) workshop led by Ministry of Education representing Jazan University, July, 2020.
- Environmental Crisis and Disaster Management Certificate, April 2020, Institute of Consulting Research and Studies, Umm Al-Qura University.
- Measurement and Assessment of the Educational Process and Career, September 2019, Deanship of Academic Development, Jazan University, Gizan, Saudi Arabia.
- Professional Study Skills Development Training: (Study, Presentation, and Research) & (Critical thinking and Numeracy) June – August 2009, E.F. International Language School, Auckland, New Zealand.
- Strategic Planning Workshop: First workshop for putting strategic plan of Jazan University 2007, Gizan, Saudi Arabia.
- Aramco Research Lab, July – Aug. 2008, Khober, Saudi Arabia.
- Seminar on ABET accreditation requirements, (2 Hr), Monday 2nd September 2019.
- Workshop on ABET accreditation Standards, (2 Hr), Monday 7th October 2019.
- Seminar on Rubrics Assessments, (3 Hr), Monday 27th October 2019.
- Workshop on Graduation projects & Summer training KPIs, (2.5 Hr), Thursday 26th November 2019.
- Workshop on Preparing Course file, (1.5 Hr), Tuesday 28th November 2019.
- Workshop on Surveys analysis, (3 Hr), Tuesday 5th December 2019.
- Seminar on Preparing Self-Study Report, (3 Hr), Tuesday 21st December 2019.
- Workshop on Exam Template specifications and design, (1.5 Hr), Monday 23th February 2020.
- Workshop on Exams based Course Learning Outcomes, (2.5 Hr), Monday 24th February 2020.
- Workshop On the pre Rubric KPIs, (2 Hr), Monday 2nd December 2019.
- Seminar on Integrated Course design, (3.5 Hr), Tuesday 4th February 2020.
- Workshop on Program Learning Outcomes Assessment, challenge, and achievement, (3 Hr), Monday 27th January 2020.

➤ Volunteering

- Saudi Student Association at University of Nebraska-Lincoln, Sponsored and supervised by Saudi Arabian Cultural Mission at the United States of America. 2015-2019
 - Student Association to University representative
 - Event organization member
 - Events speaker

INDUSTRY EXPERIENCE

- **Trainee Engineer, ARAMCO** Khober, Saudi Arabia July – August 2008

Metallic and non-Metallic Unit & Research and Development Centers

Responsibilities:

- Experience and perform material mechanical testing
- Investigate material defect and corrosion

- **Lab Manager for Nebraska Engineering Additive Technology lab (NEAT Lab), University of Nebraska-Lincoln** January– May 2019

Responsibilities:

- Managing and coordinating an additive manufacturing (3D printing) facility using three-dimensional (Metal/Polymer) printing technologies

- **Coordinator for Drop tower impact lab, University of Nebraska-Lincoln, USA** May 2016– May 2019

Responsibilities:

- Coordinating/managing impact lab facility and performing mechanical testing for in/outsource users (internal users within University of Nebraska and external users e.g. companies)

RESEARCH INTEREST

- **Non-Traditional Manufacturing:** Development of novel manufacturing processes and performance measure to control and improve the machining performance and materials characteristics. Such as electrical discharge machining (EDM) process material removal rate (MRR) and materials Surface roughness development.
- **Additive Manufacturing (3D Printing):** Employee hybrid additive manufactured (a.k.a. 3D printing) products to investigate the capability to withstand different loads in various applications and being of a better outstanding properties through a series of tests and experiments for the purpose of determining materials characteristics. Investigate the emergence and capability of additive manufacturing to enhance the machinability of ceramic (as non-conductive material) using electrical discharge machining.

MOST IMPORTANT PUBLICATIONS AND PRESENTATIONS:

➤ Publication

- [1] Haitham Hadidi, Brady Mailand, Tayler Sundermann, Ethan Johnson, Rakeshkumar Karunakaran, Mehrdad Negahban, Laurent Delbreilh, Michael Sealy, 2020, "Dynamic Mechanical Analysis Of Abs From Hybrid Additive Manufacturing By Fused Filament Fabrication And Shot Peening," Proceedings of the ASME 2020 15th International Manufacturing Science and Engineering Conference MSEC2020, Cincinnati, OH, USA, pp. 1-9.
- [2] H.Hadidi, R.Q.Feng, M.P.Sealy, 2020, "Low velocity impact of hybrid stacked steel plates," International Journal of Impact Engineering, 140, 103556, pp. 1-14..

- [3] J.A. McGeough M.P. Sealy, H. Hadidi, L. D. Sotelo, W.L. Li, J.A. Turner, 2020, "Compressive behavior of 420 stainless steel after asynchronous laser processing," CIRP Annals Manufacturing Technology.
- [4] Luz D. Sotelo, Cody S. Pratt, Haitham Hadidi, Michael P. Sealy, Joseph A. Turner 2019, "Ultrasonic non-destructive characterization of hybrid additively manufactured 420 stainless steel made with directed energy deposition," The Journal of the Acoustical Society of America, 146(4), pp. 2758-2758. doi/abs/10.1121/1.5136552
- [5] M.P. Sealy, H. Hadidi, C.J. Kanger, X.L. Yan, B. Cui, J. McGeough, 2019, "Global integrity in 420 stainless steel by asynchronous laser processing," CIRP Annals Manufacturing Technology, pp. 1-4.
- [6] Haitham Hadidi, Brady Mailand, Tayler Sundermann¹, Ethan Johnson, Guru Charan Madireddy, Mehrdad Negahban, Laurent Delbreilh, M.P. Sealy, 2019, "Low velocity impact of ABS after shot peening predefined layers during additive manufacturing" 47th SME North American Manufacturing Research Conference, (NAMRC 47), Pennsylvania, USA
- [7] Hozhabr Mozafari, Pengfei Dong, Haitham Hadidi, M.P. Sealy, and Linxia Gu, 2019, "Mechanical Characterizations of 3D-printed PLLA/Steel Particle Composites," Materials, 12(1) pp. 1-11. doi:10.3390/ma12010001
- [8] C. Kanger, H. Hadidi, S. Akula, C. Sandman, J. Quint, M. Alsunni, R. Underwood, C. Slafter, J. Sonderup, M. Spilinek, J. Casias, P. Rao, M.P. Sealy*, 2017, "Effect of Process Parameters and Shot Peening on Mechanical Behavior of ABS Parts Manufactured by Fused Filament Fabrication (FFF)," Proc. 28th Annual International Solid Freeform Fabrication Symposium, August 7-9, 2017, Austin, TX, pp. 444-458
- [9] K.P. Rajurkar, H.M. Hadidi, J. Pariti, and G.C. Reddy, 2016 "Review of Sustainability Issues in Non-traditional Machining Processes," Procedia Manufacturing, 7 pp. 714-720. 10.1016/j.promfg.2016.12.106

Presentations:

- [1] Haitham Hadidi, 2020, "Directed and Open Academic Counseling, Strategy and Benefits" 1st Forum for Student Advising, (MANAR 1st), Jazan University, Saudi Arabia.
- [2] Haitham Hadidi, Brady Mailand, Tayler Sundermann, Ethan Johnson, Guru Charan Madireddy, Mehrdad Negahban, Laurent Delbreilh, M.P. Sealy, 2019, "Low velocity impact of ABS after shot peening predefined layers during additive manufacturing" 47th SME North American Manufacturing Research Conference, (NAMRC 47), Erie, PA
- [3] H. Hadidi, R. Eddins, C. Buel¹, X.T. Wang, G. Madireddy, W.L. Li, M. Negahban, M.P. Sealy, 2018, "Tensile and Shear Strength of ABS from Hybrid Additive Manufacturing by Fused Filament Fabrication (FFF) and Shot Peening (SP)," Solid Freeform Fabrication Symposium, Aug. 13-15, 2018, Austin, TX.
- [4] H. Hadidi, T. Sundermann, B. Mailand, E. Johnson, C. Kanger, M. Negahban, M.P. Sealy, 2018, "Dynamic Mechanical Analysis of ABS from Hybrid Additive Manufacturing by Fused Filament Fabrication (FFF) and Shot Peening (SP)," Solid Freeform Fabrication Symposium, Aug. 13-15, 2018, Austin, TX.
- [5] H. Hadidi, C. Slafter, J. Sonderup, J. Casias, M. Spilinek, M.P. Sealy, P. Rao, 2017, "Effect of Shot Peening on Mechanical Behavior of ABS Manufactured by Fused Filament Fabrication," 28th Annual Solid Freeform Fabrication Symposium, Austin, TX, Aug. 7-9, 2017. (poster)
- [6] H. Hadidi, M.P. Sealy, R. Feng, J. Turner, L. Sotelo, 2017, Design for Hybrid Additive Manufacturing by Drop Tower Testing Shot Peened Almen Strips," Solid Freeform Fabrication Symposium, Aug. 7-9, 2017, Austin, TX

- [7] C. Kanger, H. Hadidi, S. Akula, C. Sandman, J. Quint, M. Alsunni, R. Underwood, C. Slafter, J. Sonderup, M. Spilinek, J. Casias, P. Rao, M.P. Sealy, 2017, "Effect of Process Parameters and Shot Peening on Mechanical Behavior of ABS Parts Manufactured by Fused Filament Fabrication (FFF)," Solid Freeform Fabrication Symposium, Aug. 7-9, 20

