Saleh M. Almestiri, Ph.D.
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Education

- Ph.D. Mechanical Engineering, University of Dayton, 2018.
- Master of Science in Mechanical Engineering, University of Dayton, 2012.
- Bachelor of Science in Mechanical Engineering, Misurata University, 2007.

Academic Experiences

- Central State University**,** Associate Professor, 2023-present, full time, tenured
- Fermi National Accelerator Laboratory, Visiting Faculty, Effects of Surface Treatments on the Outgassing of 3D-Printed 316L Stainless Steel, summer 2025, full time
- Central State University**,** Assistant Professor, 2021-2023, full time, tenure track
- Central State University**,** Assistant Professor, 2018-2021, full time, term appointment
- Air Force Research Laboratory, Summer Visiting Faculty, Effect of Heat Treatment on Mechanical Properties of Additive Manufactured Parts, summer 2023, full time
- Fermi National Accelerator Laboratory, Visiting Faculty, Vacuum Properties of Stainless Steel 3D Printed Parts for Particle Accelerators, summer 2022, full time
- AFRL Minority Leader Research Collaboration Program (ML-RCP), Principal Investigator, Effect of Heat Treatment on Mechanical Properties of Additive Manufactured Parts, Aug 2021-Sep 2022, Part time
- Fermi National Accelerator Laboratory, Visiting Faculty, Material and Vacuum Characterization of 3D Printed Stainless Steel, summer 2021, full time
- Central State University, Research Scientist 3D Modeling and Printing, summer 2020, full time
- Central State University (Verizon Innovative Learning Summer Camp)**,** 3D Printing Instructor, June 2019, Part time

Certifications

- Teaching with Technology
- Certified by Electro Optical Systems (EOS) to operate metal 3D printer EOSINT M280 and to edit laser parameters.
- Certified by Electro Optical Systems (EOS) to operate polymer 3D printer EOSINT P110.
- Certified by EDM Performance Accessories (EPA) to operate EPA Electrical Discharge Machines (EDM).

Awards/Grants

- Prime sponsor: Ohio Department of Higher Education (ODHE), recipient: Central State University. Co-Project Director, $174,655 awarded, *Choose Ohio First (COF) Scholars for Manufacturing and Environmental Engineering Programs*, 2026-2030.
- Prime sponsor: Ohio Department of Higher Education (ODHE), recipient: Central State University. Principal Investigator, $195,000 awarded, *RAPIDS 7: Enhancing Workforce Development in Advanced Manufacturing through CNC Machining and Additive Manufacturing Training*, March 2025–June 2026.
- Prime sponsor: Ohio Department of Higher Education (ODHE), recipient: Central State University. Project Director, $175,030.21 awarded, *Building Regional Capacity for In-Demand Auto & Advanced Mobility Occupations (Super RAPIDS)*, March 2025-June 2026.
- Prime sponsor: Parallax Advanced Research Corporation, prime recipient: The Ohio State University, subrecipient: Central State University. Principal Investigator, $63,999 awarded, *Structural Materials Joining in Space*, October 2023- August 2025

- Prime sponsor: U.S. Air Force Research Laboratory (AFRL), prime recipient: FlexTech Alliance, Inc. dba NextFlex, subrecipient: National Center for Defense Manufacturing and Machining (NCDMM), sub-subrecipient: Central State University. Principal Investigator, $87,000 awarded, Inclusive Regional Additive Manufacturing Pathways (iRAMP), June 2024-January 2025.
- Prime sponsor: U.S. Air Force Research Laboratory (AFRL), recipient: Central State University. Principal Investigator, $74,999 awarded, Effect of Heat Treatment on Mechanical Properties of Additive Manufactured Parts, August 2021-September 2022.
- Prime sponsor: U.S. Economic Development Administration (EDA), recipient: Central State University. Key Personnel, $3,600,000 awarded, The Central State University Workforce and Business Development Center, 2022.
- Prime sponsor: Ohio Department of Higher Education (ODHE), recipient: Central State University. Key Personnel, $88,814 awarded, Regionally Aligned Advanced Manufacturing and IT (RAPIDS VI), 2022.
- Prime sponsor: Ohio Department of Higher Education (ODHE), recipient: Central State University. Key Personnel, $88,570 awarded, Industry 4.0: Advanced Manufacturing and Secure Data Science (RAPIDS V), 2021.
- Prime sponsor: Ohio Department of Higher Education (ODHE), recipient: Central State University. Key Personnel, $107,270 awarded, Ohio West Consortium on Additive and Robotic Manufacturing (RAPIDS IV), 2020.

Publications

Journal papers:

- Almestiri, Saleh M., Andrew P. Murray, and David H. Myszka. "Special Unitary Matrices in the Analysis and Synthesis of Spherical Linkages." Journal of Mechanisms and Robotics 11.1 (2019)

Presentations

- Saleh Almestiri, *Additive Manufacturing at Central State University*, (2024, Mar 03-07). The Minerals, Metals & Materials Society (TMS) Conference. Orlando, Florida, USA.
- Saleh Almestiri. *Outgassing for 3D printed Stainless Steel 17-4 PH* (2022, Aug. 27-28). Technological Advances in Science Medicine and Engineering Conferences. Toronto, Canada.
- Zinnerman, Baijing, Almestiri, Saleh, Wong-Squires, Mayling, Lee, Meredith, and Lolov, George. (2022, August 10). Designing of a Beam Position Monitor for Additive Manufacturing. No. FERMILAB-POSTER-22-156-AD-STUDENT. Fermi National Accelerator Lab. (FNAL), Batavia, IL (United States). Web. doi:10.2172/1879514.
- Bryant, Draten. (2021, August 11). Material and Vacuum Characterization of 3D Printed Stainless Steel. No. FERMILAB-POSTER-21-116-AD. Fermi National Accelerator Lab. (FNAL), Batavia, IL (United States). Web. doi:10.2172/1827115. (Faculty mentor: S. Almestiri)
- Shawn Turner, Alessandro Rengan, Saleh Almestiri. (2021) Mechanical Testing of Prepreg Carbon and Prepreg fiberglass and Correlation with the Weibull Distribution, 2021 Midwest SAMPE Virtual Student Research Symposium. (winner)

Professional Development

Attended:

- Unified Curriculum and Course Design for Mechatronics & Robotics Engineering Workshop, Worcester Polytechnic Institute, January 5-7, 2022
- Ohio Undergrad Education Conference and Ohio Inspiring Practices for Student Success in Undergraduate Education Workshop, Capital University, Feb. 25-26, 2020

Training:

Fanuc CNC setup, Programming, and Machining. Fanuc Robots Handling Tool Operation and Programming. Operating and maintaining metal 3D printer EOS M280, plastic 3D printer P110, Wire EDM HB 400, and laser engraver Mini Epilog.