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| **Sheymaa Alazzawi** | [sheymaa\_alzzzawi- eng@uodiyala.edu](mailto:sheymaa_alzzzawi-%20eng@uodiyala.edu) |
| Marker Diyala, Baquba, Iraq |
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Doctoral Degree in Mechanical Engineering from Southern Illinois University with more than 20 years of college-level teaching and mentoring experience at Diyala University in Iraq.

# Education

## 08/2019 Ph.D. in Mechanical Engineering

## Southern Illinois University - *Carbondale, IL, USA*

[GPA: 3.9 /4.00]

# Experience

## 09/2019 – Current University Lecturer

## Diyala University, College of Engineering, Diyala, Iraq

ME136: Math: Calculus I, ME214: Strength of Materials, ME313: Material selection for design

* Working voluntarily as a reviewer in many peer-reviewed journals.
* Prepared course materials and weekly homework; assigned group work, midterm, and final exams; designed and graded a design project with weekly progress reports.
* Used Google Classroom as a cloud-based learning management system in teaching courses.
* Taught the assigned courses following the course syllabus and the university policy.
* Continued to update and revise course content and teaching methodology to maintain currency and relevance.
* Maintained familiarity with current texts, materials, teaching aids, and techniques relative to courses within the discipline and recommended their adoption when appropriate.
* Actively assisted the department in maintaining standards required for accreditation and seeking ways to improve instruction.
* Managed and mentored 4 undergraduate students' graduation projects, preparation, and submission.
* Evaluated students’ homework, tests, and exams and kept a record of the scores using Excel.
* Advised graduate students through teaching the true steps of thesis academic writing.
* Presented several academic and technical presentations such as thermal analysis in Ansys, and 3-d printing topics locally and internationally.
* Organized students’ activities such as field trips and volunteering participation.
* Worked with a group of faculties in organizing conferences, seminars, and technical workshops.
* Participated in managing the continuing education department.
* Explained the outcomes of learning in the class in a friendly and safe environment.

**Other duties**

* Provided one-on-one or small group tutoring support to freshmen and sophomore undergraduate students.
* Helped to foster independent learning and problem-solving skills among students.
* Presented several academic and technical presentations such as thermal analysis in Ansys, 3-D printing
* Trained the new students on how to use E-learning platforms such as Google Classroom, Zoom, and FCC
* Managed and mentored some of the graduation projects of undergraduate students, preparation, and submission.

• Evaluated students’ homework, tests, and exams and kept a record of the scores using Excel.

# Software Skills

* Software Skills: ANSYS, MS office, fusion360, and 3D Slicer.

# Conferences

* + Solid works, 3-D experience world 2021 conference, February 2021, Virtual
  + ASME IWME, Increasing Women in Mechanical Engineering Conference, January 2021, Virtual.
  + Level up with Ansys mechanical conference, December 2020, Virtual.
  + The 2nd International Scientific Conference of Engineering Sciences ISCES, December 2020
  + ASNT annual conference, November 2020, Virtual.
  + 2019 ASHRAE Annual Conference, Kansas City, MO
  + ASNT Annual Conference, October 2018. Houston, TX

**Publications**

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| [TITLE](https://scholar.google.com/citations?hl=en&user=5OR_yfMAAAAJ&view_op=list_works&sortby=title) | BY | [YEAR](https://scholar.google.com/citations?hl=en&user=5OR_yfMAAAAJ&view_op=list_works&sortby=pubdate) |
| [Modeling the transient behavior of the NiTi shape memory actuator using finite element analysis: parametric study of the rate effects](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=5OR_yfMAAAAJ&citation_for_view=5OR_yfMAAAAJ:u-x6o8ySG0sC)  S Alazzawi, P Filip  Results in Materials 1, 100015 | [9](https://scholar.google.com/scholar?oi=bibs&hl=en&cites=6978606962681584976) | 2019 |
| [Effect of Glycolic Acid Ethoxylate Lauryl Ether (GAL) Surfactant Solutions among Low and High Concentrations on Drag Reduction to Progress Flow in the Pipeline Networks Using RDA](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=5OR_yfMAAAAJ&citation_for_view=5OR_yfMAAAAJ:IjCSPb-OGe4C)  SS Alsaedi, Z Yousif, S Alazzawi, P Filip  Journal of Petroleum Research and Studies 12 (1), 364-380 | [3](https://scholar.google.com/scholar?oi=bibs&hl=en&cites=17054117705050988137) | 2022 |
| [Designing a smart greenhouse ventilation window based on NiTi SMA actuator](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=5OR_yfMAAAAJ&citation_for_view=5OR_yfMAAAAJ:d1gkVwhDpl0C)  S Alazzawi  Southern Illinois University at Carbondale | [3](https://scholar.google.com/scholar?oi=bibs&hl=en&cites=18267418636015512232) | 2019 |
| [Design exploration study of a smart passive window based on NiTi bent actuator](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=5OR_yfMAAAAJ&citation_for_view=5OR_yfMAAAAJ:u5HHmVD_uO8C)  S Alazzawi, P Filip  IOP Conference Series: Materials Science and Engineering 1076 (1), 012085 | [2](https://scholar.google.com/scholar?oi=bibs&hl=en&cites=62261882263547267) | 2021 |
| [Parametric studies of friction stir welding with tool using a vibrating shoulder](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=5OR_yfMAAAAJ&citation_for_view=5OR_yfMAAAAJ:UeHWp8X0CEIC)  M Serier, S Alazzawi, A Chikh, M Berrahou, T Ahmad, SK Shihab, ...  Materials Today: Proceedings 62, 70-76 | [1](https://scholar.google.com/scholar?oi=bibs&hl=en&cites=1227415645056385740) | 2022 |
| [Numerical study of a cantilever beam carrying a crack by response surface methodology](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=5OR_yfMAAAAJ&citation_for_view=5OR_yfMAAAAJ:2osOgNQ5qMEC)  M Serier, N Gangil, A Chikh, A Tabti, S Alazzawi, AM Qazi, SK Shihab  Materials Today: Proceedings 62, 49-54 | [1](https://scholar.google.com/scholar?oi=bibs&hl=en&cites=10291835769774485711) | 2022 |
| [An experimental study to advance flow in the pipeline network employing nanoparticle agents](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=5OR_yfMAAAAJ&citation_for_view=5OR_yfMAAAAJ:zYLM7Y9cAGgC)  SS Alsaedi, Z Yousif, S Alazzawi, AA Radhi, P Filip  AIP Conference Proceedings 2809 (1) |  | 2023 |