1. Name Hayder Mohammed Hasan
2. Education PhD in Mechanical Engineering

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| --- | --- |
| degree | **PhD** |
| discipline | **Mechanical Engineering/ Thermal** |
| institution | |  | | --- | | **Technical College of Thi Qar** | |
| year | **2019-Present** |

1. **Academic experience**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| number | institution | Rank | Title (chair, coordinator, etc. if appropriate) | when (ex. 2015-2017) | full time or part time |
| 1 | Shatrah Technical Institute |  | Lecturer | 2006-2019 | Full time |
| 2 | Thi qar Technical College |  | Lecturer | 2019-Now | Full time |
|  |  |  |  |  |  |

1. **Non-academic experience**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| number | company or entity, | title | brief description of position | ,when (ex. 2005-2007) | full time or part time |
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1. **Certifications or professional registrations.**
2. **Current membership in professional organizations.**
3. **Honors and awards.**

**Received several letters of thanks and appreciation from the Minister of Higher Education and Scientific Research, Head of the university, and Dean of the Technical College of Thi Qar.**

1. **Service activities (within and outside of the institution).**

-Member of several temporary and permanent committees

- Lecturer in many courses in the field of specialization

- Member of the Scientific Committees

- Supervisor for several Bachelor projects research

1. Briefly list the most important publications and presentations from the past five years:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| number | title | co-authors (if any) | where published and/or presented | date of publication or presentation |
| 1 | [Effects of helical obstacle on heat transfer and flow in a tube](https://www.sciencedirect.com/science/article/pii/S0149197021001025) | Mohsen H Fagr, Hayder M Hasan, Zaher MA Alsulaiei | Progress in Nuclear Energy | 2021 |
| 2 | [Thermal and hydraulic characteristics study of different dimpled micro-channel heat sinks](https://pubs.aip.org/aip/acp/article-abstract/2404/1/080009/1028539) | Hayder Hasan, Karim Egab, Hassan Hassan | AIP Conference Proceedings | 2021 |
| 3 | [Analysis of heat transfer and fluid flow in a microchannel heat sink with sidewall dimples and fillet profile](https://www.sciencedirect.com/science/article/pii/S2666202722000568) | Abdullah K Okab, Hayder M Hasan, Mushtaq Hamzah, Karim Egab, Ahmed Al-Manea, Talal Yusaf | International Journal of Thermofluids | 2022 |
| 4 | [Flow and heat transfer in obstacled twisted tubes](https://www.sciencedirect.com/science/article/pii/S2214157X21004494) | Zaher MA Alsulaiei, Hayder M Hasan, Mohsen H Fag | Case studies in thermal engineering | 2021 |
| 5 | [Enhancing Heat Transfer Using Multi-Size Teardrops obstacles](https://www.iasj.net/iasj/download/e5a9b4eea8050c74) | Mohsen H Fagr, Hayder M Hasan, Zaher MA Alsulaiei | University of Thi-Qar Journal for Engineering Sciences | 2022 |
| 6 | Study of flow and heat transfer performance in the multi-configuration annulus twisted tube: A three-dimensional numerical investigation | Hayder M Hasan and Mohsen H Fagr, | International Journal of Thermofluids | 2024 |

10 - Briefly list the most recent professional development activities.

**- Attended the International Conference in Samawa technical institute, 2021**

**- Completed a workshop on using absorption cooling system in Shatrah technical institute, 2024**

**- Participated in reviewing of many papers for local and foreign journals**