

Ahmed Hassan Ahmed Hassan

PERSONAL INFO

Year of Birth 1985
Nationality Sudanese
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EDUCATION

ONDOKUZ MAYIS UNIVERSITY
PHD IN MECHANICAL ENGINEERING
2021 | Samsun, Turkey
CGPA: 3.88/4.00

SUDAN ACADEMY OF SCIENCES
MSc IN MECHANICAL DESIGN
ENGINEERING
2013 | Khartoum, Sudan
GA: 83%

**CITY & GUILDS OF LONDON
INSTITUTE**
ADVANCED TECHNICIAN DIPLOMA
(IVQ5) IN MECHANICAL ENGINEERING
THEORY (PLANT TECHNOLOGY)
2011 | Khartoum, Sudan

**SUDAN UNIVERSITY OF
SCIENCE AND TECHNOLOGY**
BSc IN MECHANICAL DESIGN
ENGINEERING (PRODUCTION)
2008 | Khartoum, Sudan
CGPA: 2.81 / 4.00
Second Class - Division One (Honours)

LINKS

• ORCID • LinkedIn • Scopus • Publons
• ResearchGate • Google Scholar • ARiD

LANGUAGES

Arabic ●●●●● Native
English ●●●●○ Fluent
Turkish ●●●○○ Good - C1 Level

REFERENCES

**ASSOC. PROF. DR. ELKHAWAD
ELFAKI**
Bisha university, Saudi Arabia
+96653468402, aahmed@ub.edu.sa

PROF. DR. NACI KURGAN
Ondokuz Mayis university, Turkey
+90(362)312-1919/1541,
naci.kurgan@omu.edu.tr

PROF. DR. IBRAHIM KELES
Samsun university, Turkey
ibrahim.keles@samsun.edu.tr

ENGINEERING EXPERIENCE

KESHEY ENGINEERING | KHARTOUM, SUDAN
November 2021 – Ongoing | Mechanical Engineer

AKFALIFT FOR ELEVATOR SOLUTIONS | KONYA, TURKEY
June 2021 – September 2021 | Mechanical Design Engineer

AFRICAN PAINTS | KHARTOUM, SUDAN
Mar 2014 – Aug 2014 | Maintenance Engineer

**SUDANESE ELECTRICITY DISTRIBUTION COMPANY (SEDC),
TRANSUDAN | KHARTOUM, SUDAN**
Dec 2012 – Jun 2013 | Project manager

**SUDANESE EGYPTIAN ELECTRICAL INDUSTRIES (SUDATRAF)
| KHARTOUM, SUDAN**
Jan 2013 – Mar 2013 | SolidWorks Instructor
Nov 2011 – Nov 2012 | Production Engineer
Mar 2010 – Nov 2012 | Mechanical Design Engineer

KENANA SUGAR COMPANY | SUDAN
Sep 2006 – Oct 2006 | Trainee

RIVER TRANSPORT CORPORATION | SUDAN
Jul 2005 – Oct 2005 | Trainee

ACADEMIC EXPERIENCE

INTERNATIONAL UNIVERSITY OF AFRICA | KHARTOUM, SUDAN
Sep 2014 – Sep 2015 | Lecturer

UNIVERSITY OF BAHRI | KHARTOUM, SUDAN
Oct 2014 – Jan 2015 | Lecturer

**SUDAN UNIVERSITY OF SCIENCE AND TECHNOLOGY
| KHARTOUM, SUDAN**
Nov 2008 – Sep 2009 | Teaching Assistant (Tutor)

AWARDS

2013 | ACKNOWLEDGE LETTER
Received from Sudanese Electricity Distribution Company (SEDC),
TRANSUDAN FACTORY, Khartoum, Sudan

2007 | ACADEMIC PREEMINENCE HONORING AWARD
Issued by Mechanical Engineering Community at Sudan University of Science
and Technology (SUST), Khartoum, Sudan

ADDITIONAL COURSES

COURSERA | ONLINE

2019 | Machine Design Part I | Georgia Institute of Technology, USA
2015 | Introduction to Programming with MATLAB | Vanderbilt University, USA
2013 | Linear and Integer Programming | University of Colorado Boulder, USA
2013 | Discrete Optimization | University of Melbourne, Australia
2013 | Learn to Program: The Fundamentals | University of Toronto, Canada

**CHARISMA WORKFORCE DEVELOPMENT (CWD) | KHARTOUM,
SUDAN**
2010 | Basic HSE training

**GERMAN-MALAYSIAN INSTITUTE (GMI) | KUALA LUMPUR,
MALAYSIA**
2007 | PLC S7
2007 | Hydraulics

FIRST AUTHORED PUBLICATIONS

1. Hassan A H A, Kurgan N & Can N (2022). The correct derivation of the buckling equations of the shear-deformable FGM plates for the extended Kantorovich method. *Meccanica*. doi: **10.1007/s11012-021-01441-0**
2. Hassan A H A, Kurgan N & Can N (2020). The relations between the various critical temperatures of thin FGM plates. *Journal of Applied and Computational Mechanics*, 6(SI): 1418-1433. doi: **10.22055/jacm.2020.34697.2459**
3. Hassan A H A & Kurgan N (2020). Buckling of thin skew isotropic plate resting on Pasternak elastic foundation using extended Kantorovich method. *Heliyon*, 6(6): e04236. doi: **10.1016/j.heliyon.2020.e04236**
4. Hassan A H A & Kurgan N (2020). Bending analysis of thin FGM skew plate resting on Winkler elastic foundation using multi-term extended Kantorovich method. *Engineering Science and Technology, an International Journal*, 23(4): 788-800. doi: **10.1016/j.jestch.2020.03.009**
5. Hassan A H A & Kurgan N (2019). Modeling and Buckling Analysis of Rectangular Plates in ANSYS. *International Journal Of Engineering & Applied Sciences*, 11(1): 310-329. doi: **10.24107/ijeas.531011**
6. Hassan A H A & Kurgan N (2019). A Review on Buckling Analysis of Functionally Graded Plates Under Thermo-Mechanical Loads. *International Journal Of Engineering & Applied Sciences*, 11(1): 345-368. doi: **10.24107/ijeas.555719**
7. Hassan, A. H. A., & Keles, I. (2017). FGM Modelling using Dummy Thermal Loads. *Journal of Selcuk International Science and Technology*, 1(10-16), url: **ResearchGate**
8. Hassan, A. (2016) Solar tower power plant optimization: a review (preprint), doi: **10.13140/RG.2.2.13416.78088**

COOPERATED IN PUBLICATIONS

1. Can N, Kurgan N & Hassan A H A (2020). Buckling Analysis of Functionally Graded Plates Using Finite Element Analysis. *International Journal of Engineering and Applied Sciences*, 12(1): 43-56. doi: **10.24107/ijeas.727320**
2. Alfaki E A & Ahmed A H (2018). Prediction of electrical output power of combined cycle power plant using regression ANN model. *Journal of Power and Energy Engineering*, 6(12): 17. doi: **10.4236/jpee.2018.612002**

CONFERENCES

1. Mehyo, M., Özcan, H., & Hassan, A. H. A. (2019) Studying the Condition Based Maintenance Dataset of Naval Propulsion Plants Using Regression ANN. 3rd International Students Science Congress, Izmir Katip Celebi university, Izmir, Turkey
2. Hassan, K. & Hassan, A. H. A. (2019) Design Optimization of Electrical Distribution Transformer Using Modified Brute Force Search Algorithm. In 3rd International Students Science Congress, Izmir Katip Celebi university, Izmir, Turkey
3. Mehyo, M., Ozcan, H., & Hassan, A. H. A. (2018) Thermodynamic Analysis of a Power Plant Waste Heat Driven Absorption Refrigeration System, 4th World Congress on Mechanical, Chemical, and Material Engineering (MCM'18), Madrid, Spain – August 16 – 18, 2018, Paper No. HTFF 106, doi: **10.11159/htff18.106**
4. Hassan, A. H. A., & Keles, I. (2017). Detailed FGM Modelling using Dummy Thermal Loads using ANSYS APDL, International Conference on Advances and Innovations in Engineering ICAIE, Firat University, Elazig, Turkey

THESES

1. Hassan, A. H. A. (2021). Numerical Investigation of The Thermo-Mechanical Buckling Behavior of the Functionally Graded Plates (in Turkish). Thesis for Ph.D. in Mechanical Engineering, Ondokuz Mayıs University, Turkey. Link: **T.C. Council of Higher Education Thesis Center: Ahmed Hassan Ahmed Hassan**
2. Hassan, A. H. A. (2013). Design Optimization of Distribution Transformer Using Matlab: Application and Comparative Study. Thesis for M.Sc. in Mechanical Engineering Design, Sudan Academy of Sciences, Sudan. doi: **10.13140/RG.2.2.22644.24967/1**