

Musab Hajalfadul



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PROFESSIONAL SUMMARY

Mechanical engineer with more than five years of experience providing technical design, drafting and modelling, performance testing, and equipment calibration. Have experience in consultancies and R&D. Ambitious, hardworking and a fast learner, have outstanding presentation and analytical talents, a good team player as well as team leader. Seeking mechanical engineering position to apply and those skills in developing and evaluating mechanical designs.

Skills

- Problem solving and Analytical skills
- Organizational skills
- Excellent Verbal and Technical Report Writing Skills
- Project Management and Leadership Skills
- Good command of Office Suite (Word, Power Point, Excel, Project)
- Good experience in SOLIDWORKS, AutoCAD, ANSYS, and MATLAB

Further Trainings

- Educational and research S.I. and C.I. Engines testing, ElettronicaVeneta (Feb. 2020)
- Lean Six Sigma Yellow Belt Training Course, The University of Nottingham (Jul. 2017)
- Project Management Professional Preparatory Course, Milestone Training Center (Aug. 2016)

Memberships

Sudanese Engineering Council, Sudan

Language

Arabic: (mother tongue)

English: Excellent

Dutch: Learner

Voluntary work

Mechanical engineering student society:

- President (2013-2014)
- Finance Officer (2012-2013)
- Member (2011-2012)

Takaful charity organization:

- Board member (Apr. 2015 – Sep. 2016)
- Finance officer (2012-2013)
- Chief officer of (eid al-fatir's clothing) project (Aug. 2011)
- Deputy Finance Officer of (Ramadan's bag) project (Jul. 2011)
- Member (2010 -2011)

References

References are available upon request.

AREA OF EXPERIENCE

- ✓ Mechanical designs
- ✓ Products manufacturing
- ✓ Mechanical testing and diagnosing
- ✓ 2D drafting and 3D modelling
- ✓ Research and development
- ✓ Technical evaluation

EXPERIENCE HISTORY

Mechanical engineer, University of Khartoum, Sudan May 2019 – Jun 2021

- Provided technical solutions for several companies.
- Evaluated different mechanical designs and models and provided alternatives.
- Tested performance of some machines and engines.
- Investigated mechanical failures and provided full diagnose of their causes.
- Was investigator in \$150k project of Pipeline failure investigation.

Lab engineer, University of Khartoum, Sudan Jun 2018 – May 2019

- Prepared manuals and operation instruction lab machines.
- Performed more than 100 tests with numerous state of art testing equipment.
- Performed and supervised equipment calibration.

Installation engineer, University of Khartoum, Sudan Jan 2018 – Jun 2018

- Participated in commissioning and installation of more than 40 testing machines and equipment in mechanical engineering department laboratories.
- Listed requirements for lab machines and equipment installation and layout their positions.
- Trained 5 engineers and technicians on machines operating procedures.

Lecturer, University of Khartoum, Sudan Jan 2018 – Jun 2021

- Delivered lectures to five classes of undergraduate students in mechanical engineering.

Engineering Designer, GeoMine for mining equipment, Sudan Sep. 2015 – Jun. 2016

- Fully Designed and generated workshop drawings for 3 mining equipment.
- Prepared bill of quantity for 3 mining equipment.
- Supervised the manufacturing of 3 mining equipment.

Engineering Designer, Kenana engineering & technical service, Sudan Apr. – Jun. 2015

- Designed and sized piping system and selected instruments for sugar factory.
- Drafted the piping system using AutoCAD P&ID.

EDUCATION

MSc Manufacturing engineering and management, The University of Nottingham, United Kingdom, Dec 2017

- Dissertation Title: *Cost model for quality control of additive manufacturing.*
- Elected as course representative

BSc Mechanical Engineering, University of Khartoum, Sudan, Nov 2014

- Top of the Class
- Awarded The University Award of Best Academic Performance in Faculty of Engineering, Department of Mechanical Engineering, Final Year (2014)
- Dissertation Title: *Feasibility Study of Using Municipal Solid Waste as Fuel in Khartoum North Power Station.*
- Elected as the president of Mechanical Engineering Student Society in 2013