Curriculum Vitae (C.V)

PART ONE: GENERAL INFORMATION

NAME: Mohammed Osman Ali Hamid

NATIONALITY: Sudanese

DATE OF BIRTH: 23 September 1982

PLACE OF BIRTH: Khartoum

GENDER: Male

MARITAL STATUS: Married

LANGAUGES: Fluent 1st (Arabic) -Very good 2nd (English) - Satisfy 3rd (Chinese)

ADDRESS:

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Khartoum City (Arkaweet 61)
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PART TWO: PROFESSIONAL HISTORY

EDUCATION:

* Ph.D. in Thermal Engineering; December 2015; P.R. China; Dalian University of Technology; Final year project: Field synergy analysis of external flows and optimization periodic thermo-fluid in a plate finned tube heat exchanger.

* M.Sc. in Energy Engineering; April 2009; Sudan; University of Khartoum; Final year project: Validation of a computer program for building airflow and contaminant transport simulations.

* B.Sc. in Mechanical Engineering; September 2004; Sudan; University of Khartoum; Final year project: Technology of materials and manufacturing in pipelines.

TRANING:

* Training Certificate (DAL Motors Company, Service Department, 1 month).
* Training Certificate (Aljack & Alsanouusi Engineering Works, 2 months).

PRIZES/MEMBERSHIP:

* Prize of (SHELL CO. LTD) for best academic performance in final year class of undergraduate studies.
* Full tuition fees decision from mechanics of machine laboratory manager at University of Khartoum for research period of M.Sc in 2007.
* Full Chinese Scholarship Council CSC for studying Ph.D.
* Supporting member of international center for sustainable development of energy, water and environment systems - SDEWES center.

EMPLOYMENTS:

1/ Assistant Professor (University of Khartoum) from Jun 2016 - Till now; Assist in renewing courses syllabus for mechanical engineering department; teach Thermodynamics I course.

2/ Part-time Assistant Professor (Future University) from Aug 2016 - Till now; Teaching Computer Aided Design course.

3/ Lecturer (King Abdulaziz University) from Jan 2010 - Aug 2012 / Kingdom of Saudi Arabia (K.S.A)/ Rabigh Branch; Teaching Engineering Drawing (Manual & Software)-Mechanical Engineering Drawing (Software)-Thermodynamics Engineering I&II-Basic Workshop courses; Assist and coordinator of technical information, recruitment and cultural committees.

4/ Safety Engineer (Alattas Firm for Safety Equipments) from May 2009 - Sep 2009 Kingdom of Saudi Arabia (K.S.A)/ Makkah; Type: Fire Fighting Systems.

5/ Electro-Mechanical Engineer (Promang Consultants) from Jun 2008 - Nov 2008 New Building of Zain HQ; Type: 1/ Central Air Conditioning System (Water Cooled Chillers) For Offices; 2/ Central Air Conditioning System (Air Cooled Chillers) For Technical Floors.

6/ Electro-Mechanical Engineer (Aswar Engineering Company) from Sep 2007 - Jun 2008; Ministry of Defense Building: Central Air Conditioning System (Air Cooled Chillers); Hilton Hotel: Central Air Conditioning System (Water Cooled Chillers) {Re-habitation}.

7/ Electro-Mechanical Engineer (Elite Trading & Contracting Company) from Nov 2004 - Sep 2005; Ministry of Industry Building: Type: Central Air Conditioning System (Air Cooled Chillers); (LG) Showroom: Duct Spilt Units.

8/ Part-time tutor assistant (University of Khartoum) from Nov 2004 - Mar 2007; Mechanics of Machine-Machine Elements - Mechanical Design courses.

SKILLS:

- Excellent computer skills (MS. Word - MS. Excel - MS. Power point - Internet).

- Good computer skills with Auto cad 2D and 3D Max - SolidWorks - MATLAB - CFD ANSYS packages {Gambit, ICEM, Fluent, Airparks} - C++.
- Strong influencing, negotiation abilities, working and performing under pressure in dynamic environment.
- Ability to learn new languages and systems easily.

PUBLICATIONS:

[1] Bo Zhang, **Mohammed O.A. Hamid**, Wenjie Liu. Numerical and experimental study of field synergy analysis in water jet impingement based on minimum entropy generation method. Applied Thermal Engineering 99 (2016) 944-958. (**ScienceDirect).**

[2] **Mohammed O.A. Hamid**, Bo Zhang. Field synergy analysis for turbulent heat transfer on ribs roughened solar air heater. Renewable Energy 83 (2015) 1007-1019. (**ScienceDirect).**

[3] **Mohammed O.A. Hamid**, Bo Zhang, Luopeng Yang. Application of field synergy principle for optimization fluid flow and convective heat transfer in a tube bundle of a pre-heater. Energy 76 (2014) 241-253. (**ScienceDirect).**

[4] **Mohammed O.A. Hamid**, Bo Zhang, Ben-Wen Li. Modeling accurate spray wall prediction in port fuel injection. International journal of heat and fluid flow. (Under revision for 2nd round review in cooperation with Ph.D. supervisor in Dalian University of Technology/P R China). (**To submit to ScienceDirect).**

CONFERENCES:

[1] **Mohammed O.A. Hamid**, Bo Zhang, Luopeng Yang. Application of field synergy principle in the convective heat transfer enhancement of a pre-heater in solar-assisted MED desalination unit. 8th conference SDEWES 2013, Dubrovnik-Croatia. **(http://www.dubrovnik2013.sdewes.org/participants.php)** and **(Proceeding Book)**.

[2] Liu Wenjie, **Mohammed O.A. Hamid**, Bo Zhang. Jet impingement based on field synergy theory analysis of convective heat transfer process. Thermo-physics conference, 2015, P.R. China-Nanjing. **(Proceeding Book)**.

OTHER RESEARCHES:

[1] **Mohammed O.A. Hamid**, Walid Anis, Mohamed Hamza, Ahmed Hussain, Measuring water flow using venture and orifice plate meters, King Abdulaziz University, Kingdom of Saudi Arabia, Rabigh, June 2010.

[2] **Mohammed O.A. Hamid**, Walid Anis, Mohamed Hamza, Ahmed Hussain, Studying impact of jets, King Abdulaziz University, Kingdom of Saudi Arabia, Rabigh, September 2011.

[3] **Mohammed O.A. Hamid**, Walid Anis, Mohamed Hamza, Ahmed Hussain, Flotation characteristics of vessels, King Abdulaziz University, Kingdom of Saudi Arabia, Rabigh, January 2012.

REFERENCES:

1/ Prof. Bo Zhang
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2/ Prof. Ben-Wen Li
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3/ Dr. Hong Liu
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4/ Dr. Ali Mohamed Ali Alseory
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