Khaled Abdusamad

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Highly skilled Mechanical & Power Systems Engineer with 27 years' experience

SUMMARY OF QUALIFICATIONS

Self-motivated, able to work in a team and independently, detail-oriented mechanical engineer with a great passion for research and development. Specialized in mechanical and electrical power systems. Over nine years in wind turbines engineering research, thirteen years in project management in oil industry, and twenty years in teaching and management roles

CAREER OBJECTIVE

- To get a teaching position in mechanical engineering where I can utilize my experience towards bright career of students
- To use my research and development experience in developing concepts to solve complex problems and bringing them to the life

Proven ability to:

- perform power system performance evaluation
- develop mathematical and statistical models
- carry out oil flied service projects from A to Z
- determine the project cost in large and small scales
- perform intensive technology transfer training process
- present technical briefings and research papers

EDUCATION

PhD	Mechanical Engineering	**University of Denver, USA**	GPA 4.0	**Nov 2014**
MS	Engineering Management	**University of Tripoli, Libya**	GPA 3.31	**Jul 2006**
BS	Mechanical Engineering	**University of Tripoli, Libya**		**Jul 1994**

TECHNICAL SKILLS AND EXPERTISE

- Finite Element Analysis & CAE
- Computational Fluid Dynamic
- Minitab Software
- PowerWorld Simulator
- MATLAB
- Wind Energy
- Strength of Materials
- Solar Energy
- Reliability and Optimization
- Stress Analysis & Mechanics of Machines
- Power Plants
- Internal Combustion Engine
- Thermodynamics, Fluid mechanics, Heat transfer
- Renewable Energy
- Air Conditioning and Refrigeration
- MS Office Suite & Visio

PROFESSIONAL EXPERIENCE

Libyan Academy, Libya **Jul 2021-Now**
Assistant Professor at Libyan Academy, School of Applied Sciences and Engineering, Department of Mechanical Engineering and Energies

- Head of the mechanical engineering department
- Conducted and demonstrated classroom activities with graduate students.

AL-Mergib University, Graduate School, Libya **Jan 2021-Now**
Assistant Professor in Engineering and Information Technology Department, Mechanical Engineering Program.

- Conducted and demonstrated classroom activities with graduate students including advanced thermodynamics and advanced heat transfer.

AL-Mergib University, Faculty of Engineering Garabouli, Libya **Sep 2007-Now**
Assistant Professor in Mechanical Engineering Department

- Conducted and demonstrated classroom activities with students including thermodynamics, heat transfer, fluid mechanics, internal combustion engine, cooling, heating and air conditioning systems, renewable energy, and engineering economy.
- Supervision of undergraduate student projects
- Head of the general department
- Head of the mechanical engineering department
- Dean of the faculty of Engineering
- A member of the scientific committee of the faculty
- A member of the scientific committee of the first conference for engineering sciences and the technologies

Higher Institute of Petroleum and Applied Sciences Professions Tripoli, Libya **Mar 2018-Mar 2020**
Head of the Scientific Department

- Conducted and demonstrated classroom activities with students including thermodynamics, heat transfer, fluid mechanics, internal combustion engine, cooling, heating and air conditioning systems, renewable energy, and engineering economy.
- Supervision of undergraduate student projects
- Equivalence of academic degrees

Power System Engineering Lab, University of Denver, Colorado **Oct 2010-Nov 2014**
Graduate Researcher

- Developed computational models of Renewable and Efficient Electric and Mechanical Power systems
- Assessed the performance of wind turbines
- Validated the electric and mechanical algorithms, which are used to apply condition monitoring system on wind generators

- Apply condition monitoring system based on effects of Electrical torque pulsations of wind turbine generators.
- Developed Hazard model reliability analysis based on a wind generator condition monitoring system
- Implement condition-monitoring system Based on the Application of the Polynomial regression model and the Influence of Heat Loss on wind generators

Libyan School in USA, Denver - Colorado, USA **AUG 2012-Jun 2013**
The Principle of Libyan School in USA

- Supervision of many engineering projects in the Oil fields at Libya.
- The head manager of the engineering projects department at VAOS Oilfield Services Company.

Al-Jable Al-Gharabi University, Faculty of Engineering Gharyan, Libya **Sep 2006-Jun 2010**
One of cooperative teaching staff members in Faculty of Engineering

- Conducted and demonstrated classroom activities with students including thermodynamics, heat transfer, fluid mechanics, internal combustion engine, cooling heating and air conditioning systems, renewable energy, and engineering economy .
- Supervision of undergraduate student projects
- Introduced new teaching methods incorporating visual and lab activities to enhance learning process

VAOS Oilfield Services Company, Tripoli, Libya **Nov 1995-Jul 2007**
Engineer in oil fields

- Supervision of many engineering projects in the Oil fields at Libya.
- The head manager of the engineering projects department at VAOS Oilfield Services Company.

Ibn Al-Haytham Institute of Higher Technical Education and Scientific Research **Oct 1999-June 2001**

- Managed department including coordinating course schedules by balancing the teaching loads
- Formed the scientific committee that review and assesses the productivity of the institute
- Supported and mentored new faculty and staff
- Conducted and demonstrated classroom activities with students including thermodynamics, heat transfer, fluid mechanics, internal combustion engine, cooling heating and air conditioning systems, renewable energy,