

ABD EL-SLAM HEMAID BADR, Ph.D.

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QUALIFICATIONS:

- Work well without supervision, Initiative.
- Bilingual Arabic/English with the ability to translate.
- Ability to prioritize and remain focused on the essence of an issue.
- Excellent trainer in technical topics can plan training plans for training centers.
- Skilled at learning new concepts quickly while working well under pressure.

EDUCATION:

- 1989 **Ph.D in Mechanical Engineering (Production & Design) – Zagazig University, Egypt**
" Prediction of Fatigue Limit of Carbon Steels Through Strength and Surface Roughness".
- 1984 **M. Sc. in Mechanical Engineering (Production & Design) – Zagazig University, Egypt**
" Fatigue of Welded Joints of Locally Produced Low Carbon Steel ".
- 1978 **B. Sc (Honor Degree)in Mechanical Engineering – Zagazig University, Egypt**

EXPERIENCE (Academic):

10/2016 – present General Supervisor for Printing, Publication, and Distribution Center (PPDC) - Banha University

12/ 2015 – present Professor Emeritus, Shoubra Faculty of Engineering, Banha University

01/ 2014 – 07/2014 **ETCP Egyptian Technical College Project, Training Consultant**

6/2013 **Shoubra Faculty of Engineering, Banha University** **Cairo – Egypt.**
Assistant Professor, Mechanical Engineering Department

11/2006 - 6/2013 **College of Engineering – Jazan University. Gizan - Saudi Arabia**
Assistant Professor, Mechanical Engineering Department
General Director, ABET Accreditation Unit (AAU).

- Teaching many mechanical engineering courses.
- Preparing -from scratches- the creative problem solving & Engineering Design (EngG201, EngG202) Courses According to ABET requirements.
- Teaching and Supervision EngG201, EngG202 Courses.
- Sharing in NCAAA for Jazan University.
- Preparing the specifications of workshops for mechanical engineering program.
- Preparing the specifications of materials and design laboratories.

6/89 - 11/06 **Shoubra Faculty of Engineering, Banha University** **Cairo – Egypt.**
Assistant Professor, Mechanical Engineering Department

- Teaching many mechanical engineering courses (Undergraduate).
- Teaching many mechanical engineering courses (Postgraduate).
- Teaching in many engineering faculties and Institutes such as:
 - Higher Technical Institute - Banha, Egypt
 - Higher Technological Institute (HTI) – Tenth of Ramadan City, Egypt.
 - Faculty of Industrial Education – Cairo, Egypt.

- Institute of Efficient Productivity – Zagazig , Egypt.
- Misr University for Science & Technology – Sixth of October City, Egypt.
- Supervising materials Testing Laboratory.
- Supervising 4 M.Sc. thesis (98, 01, 01, 02).
- Co-Supervising 2 Ph.D. thesis (95, 00)
- Design and construction of many fatigue testing machines:
 - Push-Pull Fatigue Testing Machine, 93.
 - Plane Bending Fatigue Testing Machine, 97.
- Member of Engineering Studies & Consultation Center (ESCC), Shoubra Faculty of Eng.

12/84- 10/89 Shoubra Faculty of Engineering, Banha University Cairo – Egypt.
Lecturer, Mechanical Engineering Department

- Teaching and co-teaching of many mechanical engineering courses (Undergraduate).
- Teaching in many engineering faculties and Institutes such as:
 - Higher Technical Institute - Banha, Egypt
 - Higher Technological Institute (HTI) – Tenth of Ramadan City, Egypt.
 - Institute of Efficient Productivity – Zagazig , Egypt.
- Supervising materials Testing Laboratory.
- Design and construction of a fatigue testing machines:
 - Rotating Bending Fatigue Testing Machine, 84.

05/80- 12/84 Shoubra Faculty of Engineering, Banha University Cairo – Egypt.
Lecturer Assistant, Mechanical Engineering Department

- Co-teaching of many mechanical engineering courses (Undergraduate).
- Contributing in installing the new laboratories of engineering materials testing.

EXPERIENCE (Practical):

1- In the field of training and Human Resources Development:

- **Executing many short course training programs under the following titles:**
 - Maintenance Management.
 - Maintenance Planning & Work Control.
 - Technical Report Writing.
 - Industrial Workshop Management.
 - Management for Engineers.
 - Industrial Loss Control.
 - Bearing Selection and Maintenance.
 - Materials Selection for Engineering Applications.
 - Total Quality Management.
 - Transportation Management.
 - Welding Technology 1: Introduction to Welding Processes.
 - Welding Technology 2: Gas Welding Processes.
 - Welding Technology 3: Arc Welding Processes.
 - Welding Technology 4: Welding Defects and Inspection.
 - Welding Technology 5: Preparation of Welding Documents.
 - Welding Technology 6: Code of Welding Processes.
 - Welding Technology 7: Introduction to Friction Stir Welding Processes.
 - Cranes; Inspection and Load Testing.
 - Computer Maintenance Management Systems (CMMS).
 - Corrosion Control Using Cathodic Protection.

- Power Transmission Techniques.
 - Solid Waste Treatment.
 - Application of Reverse Engineering Techniques for Manufacturing Spare Parts.
 - Reliability and Risk Management.
 - Rotating Elements Alignment.
 - Non-Conventional Machining Operations.
 - Fault Diagnosis and Failure Analysis.
 - Metal Machining.
 - Projects Management.
 - Industrial Safety.
- **Teaching the previous Topics at the following Training Centers:**
 - Arab Management Association (AMA) – Cairo, Egypt.
 - Arab Management Association (AMA) – Alexandria, Egypt.
 - Arab Dar Consultant - Kuwait.
 - Management and Development Center (MDC) – Cairo, Egypt.
 - Arab Consultant for Management & Projects (APROMAC) - Cairo, Egypt.
 - International Specialized Engineering Services (ISES) – Cairo, Egypt.
 - EuroMaTech for Training & Managerial Consultations. – Dubai, UAE.
 - Maharat for Training & Consulting. – Cairo, Egypt.
 - Egyptain Training Center (ETC). – Cairo, Egypt.
 - ECOMAN, Consultation & Training. – Abu Dhabi, UAE.
 - Engineering Studies & Consultation Center (ESCC). Shoubra Faculty of Eng. Cairo, Egypt.
 - Training Expertise & Consulting Center (TECC). – Giza Egypt.
 - Mustafa Zahran Group for Consultation & Studies (MZ Group). – Cairo, Egypt.
 - Future Training Center, Riyadh, Saudi Arabia.
 - Iscosa Training Center, Damam,, Saudi Arabia.
- **Technical Training Consultant for the following Training Centers:**
 - Arab Management Association (AMA) – Cairo, Egypt.
 - Arab Management Association (AMA) – Alexandria, Egypt.
 - Maharat for Training & Consulting. – Cairo, Egypt.
 - Egyptain Training Center (ETC). – Cairo, Egypt.
 - Engineering Studies & Consultation Center (ESCC). Shoubra Faculty of Eng. Cairo, Egypt.
 - Mustafa Zahran Group for Consultation & Studies (MZ Group). – Cairo, Egypt.
- **Teaching Many Training Courses at Foreign Countries:**
 - Welding Technology 1:Introduction to Welding Processes.
 - Arab Dar Consultant - Kuwait, 1997,2000.
 - Projects Management:
 - Arab Dar Consultant - Kuwait, 1998, 1999.
 - EuroMaTech, Malaysia, 2001.
 - EuroMatech, Kuwait, 2002.
 - Arab Management Association AMA, Royal Authority Yanbau , Saudi Arabia, 2006
 - Non-traditional Machining Operations;
 - Arab Dar Consultant - Kuwait, 1999,2001.
 - Solid Waste Treatment;
 - Arab Dar Consultant - Kuwait, 2000.

- Industrial Workshop Management;
 - Arab Dar Consultant - Kuwait, 2001, 2002.
- Maintenance Planning & Workcontrol;
 - ECOMAN, Abu Dhabi, 2003.
- Bearing Selection & Maintenance;
 - Iscosa ,Damam, Saudi Arabia, 2006.
 - Future , Riyadh, Saudi Arabia, 2007.
- Industrial Safety;
 - Future, Qassiem, Saudi Arabia, 2006, 2007, 2008.
 - Iscosa ,Alkhubar , 2007.

2- In the field of Engineering Consultations:

- **Design Engineer:**
 - **Misr Trailer Company (Abaza-Langendorf) – Cairo, Egypt, 1987 – 1990.**
 - Responsibility:
 - Design and make construction drawing for many trailers, semi-trailers, tankers, silo, and special purpose trailers.
- **Consultant:**
 - **Rushdy Non-Ferrous Co., Zagazig – Egypt, 1991 – 1994.**
 - Responsibility:
 - Contribute group of consultant to Design a continuous casting and rolling machine for copper wires.
 - Design a system for copper wire drawing.
 - Design a system for Aluminum ballet.
 - **Electrolab, Sixth of October City – Egypt, 1997 – 2001.**
 - Responsibility:
 - Design many super-structure to be installed on vehicle chassis such as: tanks, fire extinguishing equipment, garbage collection installation, and others.
 - **Ten- Tec, Nasr City Free Zone Cairo – Egypt, 1997 – 2001.**
 - Responsibility:
 - Examining and testing the imported component to be used in the manufacturing of the super structure installation on chassis vehicle executed by Electrolab.
 - **MZ Group - Cairo – Egypt, 1997 – 2006.**
 - Responsibility:
 - Technical consultant for evaluation of the market value and technical performance condition of the assets of some company in the privatization program executing by Egyptian Government.
 - **Design & Manufacturing of Investment Equipment (DAMCO) Cairo – Egypt, 2001 – 2006.**
 - Responsibility:
 - Technical consultant for all welding operations and non-destructive examination of welding in steel structure works.
 - **Arab Contractors (Osman Ahmad Osman Co.) ShoubraBranch – Egypt, 1998 – 2006.**
 - Responsibility:

- Consultant and technical support for the design office.
 - Supervising and reviewing all welding documents.
 - Supervising the execution of the cranes repair and testing.
- **Engineering Studies & Consultation Center, Shoubra Faculty of Engineering, BanhaUniversity – Egypt, 1989 - 2006.**
 - Responsibility:
 - Consultant and Technical support for the center in the field of mechanical engineering and design.
 - **Al-Temseh for Manufacturing of Overhead Cranes, Abo Rawash Industrial Zone, Giza – Egypt, 2001 - 2002.**
 - Responsibility:
 - Consultant and Technical support for the design office.
 - **Global Integrated Services (GIS), Cairo – Egypt, 2005 - 2006.**
 - Responsibility:
 - Consultant and Technical support for the design office

3- In the field of Engineering Consultations:

- Executing many studies for company's evaluation with MZ Group and MustafaShawki& Anderson Group;
 - شركة النيل العامة لإصلاح السيارات القاهرة ٢٠٠٠
 - مرفق النقل الداخلي بمدينة الزقازيق الزقازيق ٢٠٠١
 - الشركة العامة للأساسات (فيبرو) القاهرة ٢٠٠٢
 - الهيئة العامة للمطابع الأميرية القاهرة ٢٠٠٤
 - شركة النيل العامة للإنشاء والرصف القاهرة ٢٠٠٥
 - شركة السويس للأسمنت – مصنع الأكياس القاهرة ٢٠٠٥
 - شركة أسمنت بورتلاند طرة القاهرة ٢٠٠٦

- عضو اللجنة الفنية المشكلة من نيابة بنها الكلية بقرار من النائب العام للتحقيق في حادث قطار قليوب أغسطس ٢٠٠٦.
- عضو اللجنة الفنية المشكلة من نيابة بنها الكلية بقرار من النائب العام للتحقيق في حادث قطار شبين القناطر أغسطس ٢٠٠٦

COMPUTER SKILLS:

- **Could use the following software effectively:**
 - Microsoft Office (Word, Excel, Access, Power Point, Front Page.
 - Microsoft Projects Planning.
 - AutoCad.
 - Solid Works.
 - Primavera
 - Harvard Graphic.
 - Internet Skills.

LANGAUGE:

- **English:**
 - Writing :Excellent.
 - Speaking : Excellent
 - Listening : Very good
 - Teaching : Excellent (I studied in English in the undergraduate and postgraduate stages and I taught in English for more than 25 years)

- **Arabic : MotherTongue Language**
- **French:**
 - Writing : Good.
 - Speaking : Fair.
 - Listening : Fair

PROFESSIONAL MEMBERSHIP:

- **Engineering Syndicate, Cairo – Egypt.**
- **Mechanical Engineering Association – Cairo – Egypt.**
- **Arab Management Association, - Cairo – Egypt.**
- **Egyptian Welding Society, (EWS), Cairo – Egypt.**

PUBLICATIONS:

- "Fatigue Behavior of Locally Produced Low Carbon Steel Welded Joints", Third Joint International Conf. On Mechanical Engineering & Technology (MET), April 1985, pp 137 - 149 .
- "Prediction of Fatigue Limit of Carbon Steels Through Strength and Surface Roughness" Ph. D Thesis, May 1989.
- " On the Performance of Welding Techniques Used for Welding SA210-A1 Steel Tubes in Power Plants at Elevated Temperature" Under Publication.
- "Investigation of Stress Corrosion Cracking of Low Carbon Steel Using Strain Rate Technique." Under Publication.
- "Plane Bending Fatigue of Low Carbon Steel Welded Joints Using GTAW and Flash Welding" Under Publication.
- " The role of Microstructure on the Performance of SA210-A1 Steel Welded Pipes Using FW, GTAW, and SMAW" Under Publication.
- "On the Performance of Unlike Structures Steel Welded Joints" Under Publication.
- " “ Welding Aluminum Based Metal Matrix Composite Using Friction Stir Welding Technique” Under Publication.

REFERENCES:

- Available On Request.