

Mechanical Engineer

Ahmed Abdelsalam Taha

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EDUCATION

- **PhD of Mechanical Engineering Department**
Alexandria University Faculty of Engineering: *Excellent* (2017)
- **Master of Mechanical Engineering Department**
Arab Academy for Science and Technology and Maritime Transport (2010)
Accumulative Grade: *Excellent* (3.71/4.0)
Thesis: *Modeling and Simulation of a Conventional Hydraulic Power steering System*
- **Bachelor of Mechanical Engineering** (*Mechatronics & Power department*)
Arab Academy for Science and Technology and Maritime Transport (May 2004).
Graduation Project: *The use of Simulation techniques to reduce the vibration levels in power steering gear system*
Project Grade: *Excellent*
Accumulative Grade: *Excellent with Honor* (3.61/4.0) (The Second)

SCIENTIFIC CONTESTS

Ministry of Communications and Information Technology Institute (ITI) Cairo 2006

An internship for nine months to learn the principles of mechatronics projects using many programs and facilities

Accomplishment

- Design methodology of mechatronics projects
- Learn the design principles and Implementation of (cad / cam) programs

SCOPE OF WORK

LECTURER, Arab Academy for Science and Technology (AASST) Egypt Aboker, Alexandria, Egypt

TRAINING & EXPERIENCE

- **Lecturer**, (AASST) University, 2017- full time
 - Mechanics of material, Material Science, Engineering drawing, AUTO CAD 2D-3D, Computer Aided Design (CAD) Matlab, Machine Design (1), Machine Design (2)

- **Assistant Lecturer**, (AAST) University, 2012- full time
Mechanics of material, Material Science, Thermodynamic, Heat transfer, Engineering drawing, AUTO CAD 2D-3D, Computer Aided Design (CAD), Matlab, IT-Computer, Machine Design (1), Machine Design (2)
- **Assistant Lecturer**, (CMRDI) institute, 2007-2011 full time
AUTO CAD 2D-3D, mold design, PLC (Programmable logic controller)
- **Training on**, Industrial Electronics, Devices and Equipment on the (TCC) Germany Center on Cairo.
- **Maintenance of Petroleum Tanks and Pipe Line**, Gained Through Training in "ALEXANDRIA PETROLEUM MAINTENANCE CO." (PETROMAINT)
- **Maintenance of Diesel Engine and the Transmutation of the Trucks**, Gained Through Training in "BEHARA SHARING CO."
- **Experience on the Refrigerating System**, Training in Fargalah Company and similar Companies for food processing.
- **Experience on Vehicle and Truck**, specially on (Fuel injection system), Part time work, Private work

INTERNATIONAL TRAINING

- **International Training**, Program on Enhancing Competitiveness Through CAD/CAM Application, Malaysia, CIRIM, August 12-25, 2007
- **International Training**, on 3D printer (Invision_si2), France, July 10-17, 2007
- **International Training**, on 3D printer (CLS), England, Loughborough university, March 12-23, 2012

INTERNATIONAL CONFERENCE

- **International Technology & Quality Conference**, Malaysia, (SIRIM) August 25-27, 2007
- **Advanced Tools and Techniques for Plastic Design and Production Workshop**, Egypt, (CMRDI), April 7-10, 2008
- **Optimization Using of CAM Software and CNC Machine Tools for Accurate and Rapid Manufacturing of Molds and Dies**, Egypt, (CMRDI), 20 March – 1 April 2009
- **International Conference Computer Theory & Applications**, (AAST), Egypt, 23-25 October, 2010

RESEARCH AND PUBLICATIONS

- Ahmed A. Taha, M.A. Gohary, H.A. El-Gamal "**Modal analysis on tire with respect to different parameters**" Paper accepted in (Alexandria Engineering Journal 'science Direct') Available online 2 November 2016 In Press, Corrected Proof

- Khalid M. Saqr, Ali I. Shehata, Ahmed A. Taha, Mohamed M. Abo ElAzm **"CFD modelling of entropy generation in turbulent pipe flow: Effects of temperature difference and swirl intensity"** Paper accepted in (Applied Thermal Engineering journal) Volume 100, 5 May 2016, Pages 999–1006
- Ahmed A. Taha, Hassan A. EL-Gamal and El-Sayed Saber **"Modeling and Simulation of a Conventional Hydraulic Power Steering System"** Paper accepted in (International Conference Computer Theory & Applications) 23-25 October, 2010 Alexandria, Egypt.
- Ahmed A. Taha, **"Modeling and Simulation of Conventional Hydraulic Power Steering System"** MSc. Thesis, Arab Academy of Science and Technology and Marine Transportation (2009)
- Ahmed A. Taha, Mahmoud Elgamal, Karem Mahmoud and Rofaida Harb **"Automatic Diesel Pump Test Machine"** Diploma Project, information technology institute (2006)
- Ahmed A. Taha, Fahd Hadad and Amro Nayfa **"Measuring the performance of real power steering system "** B.S. Thesis, Arab Academy of Science and Technology and Marine Transportation (2004)

COMPUTER SKILLS

- **SOFTWARE:** AutoCAD, Inventor 11, Matlab Programming, Solid Edge, ICATS MODENT, MS Office 2007, Fluent Software (core) , Primavera P3 (core), Solid Works (core)
- **Computer Languages:** C++ Programming (core), C Programming (core), Java Programming(core), assembly programming (core)
- **Operating Systems:** MS Windows 7 , Red Hat Linux Operating System(core)

LANGUAGES

- **Arabic:** Mother Tongue
- **English:** very good
- **Dutch:** Fair level (3)

MEMBERSHIPS

- Student membership of The Society of Automotive Engineers (SAE International)

REFERENCES

Prof. Dr. EL-Sayed Saber, Professor of Simulation and Mechanics of Vibration, (AAST) Aboker, Alexandria, Egypt +20101610623

Dr. Amro Aly, Assistant Professor of Thermodynamics and Heat Transfer, (AAST) Aboker, Alexandria, Egypt +20127434326

Dr. Ahmed El-safty, Assistant Professor of Air Conditioning, (AAST) Aboker, Alexandria, Egypt +20106009749

PERSONAL DATA

- **Date of birth:** 20 / 5 / 1982
- **Nationality:** Egyptian
- **Military Service:** Exempted permanently (sole son)
- **Hobbies:** Reading, Tennis and Swimming