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CITIZENSHIP:

Egyptian Citizen – U.S. Permanent Resident.

EDUCATION:

Ph.D., 1990 Mechanical Engineering, North Carolina State University (NCSU).
M. Sc. 1980 Mechanical Engineering (Automotive Engineering), Faculty of Engineering, Ain Shams University (ASU), Cairo, Egypt.
B. Sc. 1971 Mechanical Engineering (Automotive Engineering), Faculty of Engineering, Ain Shams University (ASU), Cairo, Egypt. (Rank: 1st out of 71 students).

PROFESSIONAL EXPERIENCE:

7/2003 – Present **Assistant Professor**, College of Technology-Riyadh (CTR), Riyadh, Saudi Arabia.
3/2002 – 7/2003 **Assistant Professor**, College of Technology-Makkah (CTM), Makkah, Saudi Arabia.
6/1999 – 3/2002 **Department Head**, Department of Mechanical Technology, College of Technology-Makkah (CTM), Saudi Arabia.
9/1995 – 6/1999 **Assistant Professor**, College of Technology-Riyadh (CTR), Riyadh, Saudi Arabia.
9/1990 – 9/1995 **Assistant Professor**, Mechanical Engineering Department (Automotive Engineering), Faculty of Engineering, Ain Shams University, Cairo, Egypt.
6/1991 – 6/1993 **Adjunct Professor**, Department of Production & Energy, Higher Technological Institute, El-Asher, Egypt.
1/1983 – 8/1990 **Research and Teaching Assistant**, Mechanical & Aerospace Engineering Department, North Carolina State University (NCSU), Raleigh, NC, USA.
1/1980 – 8/1982 **Assistant Lecturer**, Mechanical Engineering Department (Automotive Engineering), Faculty of Engineering, Ain Shams University, Cairo, Egypt.

7/1971 – 1/1980 **Instructor**, Mechanical Engineering Department
(Automotive Engineering), Faculty of Engineering, Ain
Shams University, Cairo, Egypt.

PROFESSIONAL ACTIVITIES:

- The Owner and Manger of “www.thecartech.com” website.
- Participant in Automotive Text Books Preparation, “Automotive Brake Systems”, “Internal Combustion Engines”, GOTEVOT, KSA.
- Executive member of the College of Technology-Riyadh team in the “Mawhiba” program, sponsored by King Abdel Aziz and his Companions Foundation for the Gifted, Riyadh, KSA.

RESEARCH INTRESTS:

Vehicle systems, performance and control. Training and technical education.

PUBLICATIONS:

Mourad, K. M., Alwassia, K., “A concept for developing the vocational and technical education in the colleges of technology to improve the technical performance standard of the college graduates”, The Second Saudi Technical Conference and Exhibition- STCEX 2002, Riyadh, KSA, 2002

Mourad, K. M., Nosseir, T.A., Salem, A. A., “Feasibility Study of Preventive Maintenance Implementation Based on Cost Analysis”, First Saudi Technical Conference & Exhibition, Riyadh, KSA, 2002

Mourad, K. M., Royster, L. H., Ciskowski, R. D., “Using the Boundary Element Method to Investigate the Wave Propagation in a Viscoelastic-Acoustic System”, Boundary Elements Communications Journal, Vol. 8, No. 5, 1995.

Mourad, K. M., Royster, L. H., Ciskowski, R. D., “The Boundary Element Method Formulation of the Wave Propagation in Viscoelastic-Acoustic Systems”, The International Conference on Computational Acoustics and its Environmental Applications, Southampton, UK, 1995.

Ciskowski, R. D., Xie, K.J., Mourad K. M. and Royster, L. H., “Applications of the Boundary Element Method in Bioacoustics”, NOISE-CON 91, NY, 1991.

Mourad, K. M., Royster, L. H., Ciskowski, R. D., “Using the Boundary

Element Method to Investigate Internal Earmuff-Ear Canal Resonances”,
Advances in Boundary Elements, C. A. Brebbia and J. J. Connor, Eds., CM.
Pub., Vol. 2, 291-308, Boston, 1989.

Mourad, K. M., Ciskowski, R. D. and Royster, L. H., “An Ongoing Study of
the Use of the Boundary Element Method to Solve Some of the Commonly
Encountered Industrial Noise and Vibration Control Problems”, J. Acous. Soc.
Am., Suppl., IS64, 1987.

THESIS SUPERVISION:

- A. Abou-Elenien, “Optimum Life for a Fleet of a trucks”, MSc. Automotive
Eng. Dept., Faculty of Eng. ASU, Cairo, Egypt, 1995.
- A. Elsakran, “Optimum Running-in Procedure for Overhauled Internal
Combustion Engines”, MSc. Automotive Eng. Dept., Faculty of Eng., ASU,
Cairo, Egypt, 1995.
- A. Abdel-Slam, “Feasibility Study of Preventive Maintenance
Implementation”, MSc. Automotive Eng. Dept., Faculty of Eng., ASU, Cairo,
1992.

COURSES TAUGHT:

College of Technology-Riyadh, Saudi Arabia (2004- Present):

- Engineering Mechanics
- Graduation Project
- Internal Combustion Engines
- Automotive Design
- Graduation Project
- Automotive Engineering I & 2
- Machine Elements Design
- Engines technology
- Brake system Technology

College of Technology-Makkah, Saudi Arabia (1999- 2004):

- Graduation Project
- Brake system Technology
- Engineering Drawing
- Industrial safety
- Automotive Workshops Management

College of Technology-Riyadh, Saudi Arabia (1995- 1999):

- Graduation Project

- Computer Application- FORTRAN language
- Computer Programming- C/C++ language
- Brake System Technology
- Internal Combustion Engine Technology
- Engineering Materials Technology
- Vehicle Performance

Ain Shams University, Cairo, Egypt. (1990- 1994)

- Graduation Project
- Automotive Design
- Kinematics and Kinetics of Automobile Systems
- Vehicle Dynamics
- Automobile Maintenance and Repairs
- Testing of Vehicle System Performance
- Automobile Garage Management

Higher Technological Institute, El-Asher, Egypt. (1991- 1993)

- Statics and Dynamics
- Industrial Pollution Control

NCSU, Raleigh, NC, USA. (1988- 1990)

- Statics and Dynamics

CONSULTATIONS:

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|------------|---|
| 1994- 1995 | Study of energy conservation in transportation (sponsored by the Academy of Scientific and Technology, Communication and transportation Research Council, Cairo, Egypt) |
| 1993-1994 | Upgrading the public transportation system in Alexandria, Egypt (sponsored by The International Bank) |
| 1990- 1991 | Design of public transportation garages and estimation of their optimum size (sponsored by The Academy of Scientific and Technology, Communication and transportation Research Council, Cairo, Egypt) |
| 1980- 1981 | Study of the public transportation system in Cairo, Egypt (sponsored by The International Bank) |

REVIEWED ARTICLES:

- Paper review for the Journal of Elastomers and plastics.

INVITED SEMINARS:

- Mourad, K. M., “Hybrid Vehicles”, Up to date program, Saudi TV2, KSA, 2007.
- Mourad, K. M., “Traffic Problems and Solutions”, Egyptian TV, Egypt, 1995.
- Mourad, K. M., “Vehicle Braking System”, The Egyptian Society of Mechanical Engineering, Cairo, Egypt 1994.
- Mourad, K. M., “Cost Analysis of Preventive Maintenance Implementation”, The Egyptian Society of Mechanical Engineers, Cairo, Egypt. 1993.

PROFESSIONAL TRAINING:

- Training course, eLearning Institute “Developing Wide-Scale Education and Training Programs through eLearning and Networking Technologies”, U.S. Embassy Riyadh & Riyadh College of Technology, Riyadh College of Technology, July 10-14, 2010.
- Training, “Automobile Chasses”, Abdul Latif Jameel Group (TOYOTA) Training Center, Jeddah, KSA, 2002.
- Training, “Fuel Injection”, Abdul Latif Jameel Group (TOYOTA) Training Center, Jeddah, KSA, 2000.
- Workshop, “The use of C++ Language in Engineering Application”, AU, Auburn, AL, 1995.
- Tutorial, “Natural Gas Operated Vehicle”, Moscow Institute of Road and Transportation, Moscow, Russia, 1993.
- Workshop, Diesel Fuel Injection (test and repair), ASU, Cairo, Egypt, 1992
- Tutorial, “Modern Method and Concepts of Education”, ASU, Cairo, Egypt, 1982
- Training, Course at Mercedes-Benz, Stuttgart, West Germany, 1978.
- Trainee, The Design Office of Magirus-Deutz, Ulm, West Germany, 1971

AWARDS AND HONORS:

- Distinguished Teacher Award, College of Technology- Riyadh, (2009)
- Scholarships, E-A-R Division of Cabot Corporation in the application of acoustics, Raleigh, NC, USA, (1987-1988).
- Scholarships, Egyptian Government, “Distinguished student award”, (1983-1987).

SERVICES:

- Committee Member of the Departmental Syllabus Development (CTR)
- Committee Member of the Scientific Committee, Department of Mechanical Technology, (CTR)
- Head of Text Books Preparation Committee, Automotive Technology,

(GOTEVOT)

- Committee Member of the General Examination Administration Office (ASU)
- Committee Member of the Undergraduate Student Affairs (ASU)
- Committee Member of the Department Syllabus Development (ASU)

EXTENSION ACTIVITIES:

- Teaching Automotive Systems And Trouble Shooting Workshop, Continuing Education Program, ASU, Cairo, 1991, 1992.

PROFESSIONAL AFFILIATIONS:

- Member of Society of Automotive Engineers, Egypt
- Member of the International Scientific Advisory Committee for the “International Conference on Computational Acoustics”, Southampton, UK, 1995.
- Member of the Egyptian Society of Mechanical Engineers.

ACHIEVEMENTS:

- Invention of a hybrid concept car, mawhiba, program, sponsored by King Abdel Aziz and his companions foundation for the gifted, CTR, 2007
- Design and construct automobile brakes test rig for training proposes, senior student graduation project, CTR, Riyadh, KSA, 2006
- Initiate and supervises senior student graduation project “Design and construction of experimental car”, ASU, Cairo, Egypt, 1994.
- Design and construct static and dynamic tire test rigs, ASU, Cairo, Egypt, 1976

PERSONAL EXPERIENCES:

- Computer experiences (Word, Excel, AutoCAD, Computer programming [FORTRAN, C/C++], Front page, Expression web)
- Language knowledge (Arabic and English).

REFERANCES:

- **Dr. R. D. Ciskowski**,
IBM Corp, 404 Wayman St.,
Waltham, MA 0224
rciskowski@us.ibm.com

- **Ahmed Soliman**, Ph.D.

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Mechanical Engineering and Engineering Science
The University of North Carolina at Charlotte

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- Dr. Fissal Abd Elahady

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Bemidji State University
Industrial Technology Department
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