

CURRICULUM VITAE

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Nationality: Lebanese

Marital status: Married and I have four children.

Education:

(a) Middle East Technical University, in Ankara-Turkey. The Department of Industrial Engineering.

Degree Obtained: Ph.D. in Industrial Engineering (August 15, 1996).

(b) Middle East Technical University, in Ankara-Turkey. The Department of Industrial Engineering.

Degree Obtained: M.Sc. in Industrial Engineering (February 24, 1989).

(c) Middle East Technical University, in Ankara-Turkey. The Department of Industrial Engineering.

Degree Obtained: B.Sc. in Industrial Engineering (July 11, 1986).

What is Industrial Engineering?

Industrial engineering is concerned with the design, improvement, and installation of integrated systems of men, materials, and equipment. It draws upon specialized knowledge and skill in mathematical, physical, and social sciences, together with the principles and methods of engineering analysis and design, to specify, predict and evaluate the results to be obtained from such systems.

Work experience:

(a) Middle East Technical University, in Turkey. The Department of Industrial Engineering (1988-1994).

Job: Research Assistant

(b) Bilkent University, in Turkey. The Department of Industrial Engineering, spring, 1995. Part Time Instructor (Lecturing on Human Factors Engineering).

(c) Assistant Professor in the Industrial Engineering department, at the "Eastern Mediterranean University (September 2000 to March 2011).

(d) Associated Professor in the Industrial Engineering department (May 2, 2011), at the "Eastern Mediterranean University," in the Turkish Republic of North Cyprus (TRNC).

(e) Vice chair for the Industrial Engineering Department at EMU since June 2007.

Areas of research:

- Human Factors Engineering or ERGONOMICS,
- Simulation,
- Experimental Design.

Areas of teaching:

- Human Factors Engineering or Ergonomics,
- Method and Time Study,
- Design and Analysis of Experiment,
- System Simulation,
- Statistics,
- Operation Research,
- Production Planning,
- Engineering Economy and Investment Planning.

Courses I have taught at the Department of Industrial Engineering (EMU):

- 1- IENG 201: Introduction to Industrial Engineering.
- 2- IENG 301: Fundamentals of Work Study and Ergonomics.
- 3- IENG 405: Human Factors Engineering.
- 4- IENG 440: Introduction to Manufacturing and Service Systems Design Project.
- 5- IENG 442: Manufacturing and Service Systems Design Project.
- 6- IENG 461: Systems Modeling and Simulation.
- 7- IENG 505: ERGONOMICS.
- 8- IENG 581: Design and Analysis of Experiments.
- 9- IENG 593: Graduate Research Seminar II.
- 10- IENG 599: Special Topics in Industrial Engineering.

Achievements, Curriculum Development and Teaching Innovations at EMU:

1- I was selected as the best professor at EMU the Department of Industrial Engineering during the academic year 2007-2008. This was published by Wikipedia Encyclopedia through the Internet. For more information, you can contact the previous Dean of the Engineering Faculty at EMU (Prof. Dr. Izzet KALE):

E-mails: kalei@westminster.ac.uk or izzetkale@gmail.com

2- During the spring 2001-02, I designed a new undergraduate course. The title of this course is "Human Factors Engineering." The course code is IENG 405. It is a technical elective for Industrial Engineering undergraduate students.

3- During the spring 2003-04, I designed a new graduate course the IE 505. The course title is “Ergonomics.” This course is designed as an elective for Industrial Engineering graduate students.

4- I designed two teaching films to be used for training students on Performance Rating in the Work-Study laboratory of the IE-department.

Other skills:

(a) Good skills in using PC’s and programming.

(b) Good experience in using the Statistical Software’s and Spreadsheets (e.g. SPSS, MINITAB, and Microsoft Excel).

(c) Language skills

-Arabic (Good),

-English (Good),

-Turkish. (Good),

-French (Fair).

Participation in Professional Associations:

1. Member of the “Operation Research Society” in Turkey.
2. Member of the Chamber of Mechanical Engineering in Turkey (“tmmob: makina mühendisleri odası”).
3. Member of the Engineering Syndicate for the North of Lebanon.

List of Supervised Theses at EMU:

1. Özhan ÖZTUĞ, “The Selection and Training of Operators in TEKNECİK Electricity Supply Plant.” A Master Thesis in IE department, EMU, September 2001.

Description: This study was performed to develop guidelines for the selection and training of control room operators working in TEKNECİK Electricity Supply Plant which is located in Kyrenia of the Turkish Republic of North Cyprus.

2. Cemal EGEMEN, “ Effects of Biorhythm on Performance.” A Master Thesis in IE department, EMU, July 2002.

Description: This research was conducted to investigate the effects of Biorhythm theory on the performance of 65 students from EMU, plus 60 sportsmen and sportswomen.

3. Z. Ediz GÜRSAN, “An Expert Advisory System for Primary School Children’s Product Design.” A Master Thesis in IE department, EMU, February 2006.

Description: This research was conducted at the Eastern Mediterranean Primary School to investigate the design of available furniture and its degrees of matches to the body dimensions of students. Furniture is an important factor that affects the development of human bodies.

4. Burcu ÖZÖĞÜL, “Study of Performance of Eastern Mediterranean University Students.” A Master Thesis in IE department, EMU, January 2009.

Description: This research was conducted at the Eastern Mediterranean University (EMU) with the purpose to study variations in the performances of students. The factors causing such variations in performance were examined and analyzed.

5. Orhan KORHAN, “Risk Assessment Modeling of Work-Related Musculoskeletal Discomfort and Their Frequencies in Computer Users.” A PhD thesis in IE department, EMU, June 2010.

Descriptions: This research was conducted in the Turkish Republic of North Cyprus and was funded by the Ministry of Higher Education. The purpose was to analyze and study the musculoskeletal disorders problems that rise up from using computers at work.

6. Faeza DLHIN, ‘Ergonomical Evaluation for the Design of the Computer Laboratory PCLab3 in the Department of Industrial Engineering at EMU and Proposing a Better Design.’ A Master Thesis in IE department, EMU, June 2013.

Descriptions: This research was conducted in the PCLab3 of the department of Industrial Engineering at EMU. The PCLab3 design was analyzed and a new ergonomical design was proposed.

7. Tareq BABAQI, ‘Ergonomical Evaluation for the Design of EMU Library and Proposing a Better Design.’ A Master Thesis in IE department, EMU, June 2016.
8. Mohammad A. KH. Najeeb Hamdan, ‘Human Safety at EMU Registrar Office.’ A Master Thesis in IE department, EMU, August 2017.
9. Mohamed Ali Hassan LAHRASH, ‘Optimize Crude Oil in Transportation Pipe Using Response Surface Methodology.’ A Master Thesis in IE department, EMU, September 2017.
10. Faeza DLHIN, ‘Students Skills assessment with the purpose to increase their Employment Possibilities.’ A Ph.D. thesis, February 2021.

Enrolments in Committees at EMU:

- 1- ABET Committee in the Industrial Engineering department, at EMU (2001-2010).
- 2- ABET Committee in the Faculty of Engineering, at EMU (Since September 2007 to October 2008).
- 3- Head of the Graduate Program & Research Planning Committee in the Industrial Engineering department, at EMU (Since August 2010).
- 4- Head of the Library Bookstore & Publications Planning Committee in the Industrial Engineering department, at EMU (Since 2007).
- 5- Undergraduate Program Planning Committee in the Industrial Engineering department, at EMU (Since 2007).
- 6- Exam Coordinator at the Engineering Faculty, at EMU (Since 2007).
- 7- Promotional Publications Committee in the Faculty of Engineering (Since 2007).

Referee for Journals:

- 1- ‘Automation in Construction’ journal. Elsevier Publisher.
- 2- ‘TMMOB’ the journal of Industrial Engineering in Turkey.

PUBLICATIONS:

Thesis and Dissertations:

Mackieh, A. (1989). **Effects of BIORHYTHM on Performance**. M. Sc. Thesis in I.E. Middle East Technical University, Ankara.

Mackieh, A. (1996). **Modelling of human errors in a university training nuclear reactor**. Ph.D. Thesis in I.E., Middle East Technical University, Ankara.

Articles in Refereed Journals:

Mackieh, A., Alten, S. and Cilingir, C. (1995). "Simulation of the control board of an experimental nuclear reactor." **Transactions of American Nuclear Society**, No. 73, P 127-129.

Mackieh Adham and Cilingir Canan (1998). "Effects of performance shaping factors on human error." **International Journal of Industrial Ergonomics**. No. 22, P. 285-292.

Bengisu Murat, Izbrak Gökhan, & Mackieh Adham (2008). ‘Work Related Challenges for Individuals Who Are Visually Impaired in Turkey. **Journal for Visual Impairment & Blindness**, volume 102, No. 5, P 284-294.

Orhan Korhan and Adham Mackieh (2010). A Model for Occupational Injury Risk Assessment of Musculoskeletal Discomfort and Their Frequencies in Computer Users. **Safety Science** 48, 868-877.

Orhan Korhan and Adham Mackieh (2011). "An Empirical Investigation of the Detrimental Effects of the Intensive Use of Computers in the Business World". **African Journal of Business Management**, Vol.5 (3), P. 656-665.

Tareq BABAQI and Adham MACKIEH. Ergonomical Evaluation for the design of EMU Library Furniture and Proposing a Better Design. *Journal of Multidisciplinary Engineering Science and Technology (JMEST)*. ISSN: 2458-9403. Vol. 4 Issue 3, March 2017, pp. 6894-6904.

Adham Ahmad MACKIEH and Faeza Saleh A. DLHIN. Evaluating the Employability Skills of Industrial Engineering Graduates: A Case Study. *International Journal of Engineering Education*. Vol. 35, No. 3, pp. 925-937, 2019.

Ali ELGHOMATI, Adham MACKIEH and Tareq BABAQI. Weaknesses of Research Methodologies on Musculoskeletal Disorders Associated with Mobile Touch-screen Devices. *Journal of Occupational Health*, 64, issue 1, July 2022, pp. 1-11.

Articles in Refereed Proceedings

International Conferences:

Mackieh, A., Cilingir, C., Sen, T. and Alten, S. (1996). "Modelling of human errors in a university training nuclear reactor." **Advances in Applied Ergonomics: Proceeding of the 1'st International Conference on Applied Ergonomics (ICAE'96)**. Istanbul, Turkey. USA Publishers Corporation. ISBN 0-471-88015-9:847-850.

Mackieh, A. and Cilingir, C. (1996). "Causes of Human Error in Nuclear Reactors." **Proceedings 4'Th Pan Pacific Conference on Occupational Ergonomics**, P. 614-617, **Taiwan**.

Murat Bengisu, Gökhan İzbrak, Adham Mackieh (2006). Problems Faced by Visually Impaired People at Work; the Case of Turkey. **International Conference on Problems & Success Factors in Business, perspectives from emerging market and transition economies III**. 21 September 2006, International Atatürk Alatau University, Bishkek, KYRGYZSTAN. P61-72.

Faeza Saleh DLHIN, Adham Ahmad MACKIEH, and Kehinde Adewale Adesina. 'An Integrated Employability Aptitude Survey-Cognitive Test Model for Assessing Students' Skills Retention Threshold. 'GJCIE 2019, September 2,3 -2019, Gazimağusa, North Cyprus, TURKEY. PP 26-33.

Conferences in Turkey:

Cilingir, C. and Mackieh, A. (1989). "Effects of BIORHYTHM on Productivity." **Proc. of the 2nd Ergonomics Congress. National Productivity Institute, Ankara.** No 379, P188-197. Printed in Turkish language.

Cilingir, C. and Mackieh, A. (1991). "Comparison of three measurement techniques for mental load assessment." **Proc. of the 3rd Ergonomics Congress. National Productivity Institute Publications, Ankara.** No. 441, P. 529-538.

Cilingir, C., Mackieh, A., Temel, E. and Ö. Kaya (1993). "The effects of noise and music on simple manual tasks." **Proc. of the 4th Ergonomics Congress. National Productivity Institute Publications, Ankara.** No. 509, P. 22. Printed in Turkish language.

Cilingir, C., Mackieh, A. and Aytaç, A. (1993). "Use of reaction initiation time and critical flicker fusion in the assessment of mental work load." **Proc. of the 4th Ergonomics Congress. National Productivity Institute Publications, Ankara.** No. 509, P. 118-130. Printed in Turkish language.

Aktas, N., Cilingir, C., Mackieh, A. and Cakaroglu, P. (1993). "Comparison of energy consumption and level of energy from food intake for female workers in the ready-to-wear textile industry." **Proc. of the 4th Ergonomics Congress. National Productivity Institute Publications, Ankara.** No. 509, P. 400. Printed in Turkish language.

Mackieh, A. and Cilingir, C. (1995). "The use of object-oriented programming in Ergonomy for simulating task in an experimental research." **Proc. of the 5th Ergonomics Congress. National Productivity Institute Publications, Istanbul.** No. 570, P. 560-567. Printed in Turkish language.

Korhan, O. and Mackieh A. (2005). "Musculoskeletal Disorders and the use of computers"(Bilgisayar Kullanımında Ortaya Çıkan Kas, İskelet ve Sinir Sistemi Rahatsızlıkları). The 11'Th congress of Ergonomy (ERGONOMİ 11. ULUSAL KONGRESİ). "Istanbul Teknik University," 26-28 December 2005, P. 253-262. Printed in Turkish language.

Technical Reports on Supported Projects:

N. AKTAŞ, C. ÇİLİNGİR, P. ÇAKIROĞLU and A. MACKIEH. The Energy Expenditure and Energy Intake for the Female Workers in The Textile Industry in the Region of ANKARA-TURKEY ('Kadın Dikiş işçilerinin Enerji Harcamaları ve Enerji-Besin Öğeleri tüketim durumları,' Ankara University (Faculty of Agriculture), Publication No. 1332, 1993. Printed in Turkish language.