# Curriculum vitae

## Personal information

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| First name and Surname | **Mahmoud Ahmed Shaktour** |
| Title | Assistant professor |
| Address | Leptis Street, Alkhoms-Libya |
| Work Position | Physic Department, Faculty of Science, Elmergib University. Khoms-Libya |
| Mobile | +218926074129 +218913272892 |
| E-mail | ztoever2002@yahoo.co.uk - mashakture@elmergib.edu.ly |
| Nationalities | Libyan |
| Date of birth | 29.09.1973 |
| Place of birth | Tripoli |
| Gender | Male |
| Marital status | Married |

## Education and academic qualification

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| **Dates** | **1995 till 1999** |
| Title of qualification awarded | B.Sc. in Physics. |
| Name and type of organisation Providing education and training | Elmergib University, Faculty of Science, Physics Department |
| Topic of diploma thesis | Physics of Plasma |

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| **Dates** | **2003 till 2006** |
| Title of qualification awarded | M.Sc. in Physics. |
| Name and type of organisation Providing education and training | Brno University of Technology, Faculty of Electrical Engineering and Communication |
| Topic of diploma thesis | Universal KHN biquads with VFA and CDTA active elements |

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| **Dates** | **2007 till 2011** |
| Title of qualification awarded | Ph.D. Doctor of Philosophy in Microelectronics and Technology |
| Name and type of organisation Providing education and training | Brno University of Technology, Faculty of Electrical Engineering and Communication |
| Topic of diploma thesis | Unconventional Circuit Elements for Ladder Filter Design |

## Research Interests:

- Analog circuit design: voltage-, current-, and mixed-mode.
- Low-voltage, low-power analog circuit design.
- Non-conventional design techniques: Bulk-driven, floating-gate.

## Experience:

Lecturer at Elmergib University, Faculty of Sciences, Physics Department from 2012 till now on the following subjects:
1) Electromagnetic Field Theory.
2) Quantum Mechanics.
3) Electronics for senior year students.
4) Fundamentals of Optics.
5) Mechanics and Properties of Matter for freshman year students.
6) Calculus (Integration and Differentiation) for freshman year students.
7) General Physics for freshman year students.
8) Practical Physics for sophomore year students.
9) Supervision of senior physics projects.

## Employment Record:

2012-2014 Head of Physics Department.
2014 -2016 Agent Scientific Affairs at Faculty of Medicine.

## Research & Publications:

- Co-worker of several projects of the Czech Grant Agency.
- AA2081 Novel: circuit principles for current- and mixed-mode analog signal processing.
- GA102/06/1383: Novel circuit principles for current- and mixed-mode analog signal processing.

## Published Papers:


[1] BIOLEK, D., KOLKA, Z. BIOLKOVA, V., SHAKTOUR, M. Current-Mode Video Filters Employing Commercial Active Elements. In *Mosharaka International Conference on Communications, Signal and Coding*. Jordan: Mosharaka, 2008. pp.111-116.

[2] SHAKTOUR, M., BAJER, J., BIOLEK, D. Optimization of ladder filters with GmC simulation of floating inductors. In *IMAPS CS International Conference 2008. 1*. Brno: Ing. Zdenek Novotny, 2008. pp. 19- 24. ISBN: 978-80-214-3717-3.

[3] SHAKTOUR, M., BIOLEK, D. Floating GIC and its implementation. In *IMAPS CS International Conference 2008. 1*. Brno: Ing. Zdenék Novotny, 2008. pp. 1- 6. ISBN: 978-80-214-3717-3.

[4] BIOLEK, D., KOLKA, Z. BIOLKOVA, V., SHAKTOUR, M. Videofiltry s komerčními transkonduktory. *Slaboroudý obzor, 2008*, roč. 64, pp. 1- 2, pp. 6- 10. ISSN: 0037-668X.

[5] BIOLKOVA, V., BIOLEK, D., BAJER, J. VÁVRA, J., SHAKTOUR, M. Optimalizace příčkových filtrů s OTA zesilovači. *Slaboroudý obzor, 2009*, roč. 65, pp. 1- 4, s. ISSN: 0037-668X.

[6] SHAKTOUR, M. KHN Filter Realization. In *XIV Conference Computer Applications* in *Electrical Engineering*. Poland, Poznan University of technology: 2009. pp. 63- 64. ISBN: 978-83-89333-24-7.

[7] SHAKTOUR, M. High-order ladder filter realization. In *XV Conference Computer Applications in Electrical Engineering*. Poznan-Poland: 2010. pp. 47- 48. ISBN: 978-83-89333-34-6.

[8] SHAKTOUR, M. Design of Kerwin Huelsman Newcomb (KHN) by using three and two CDTAs. In *XIV Conference Computer Applications in Electrical Engineering*. Poland, Poznan University of technology: 2010. pp. 71- 73. ISBN: 978-83-89333-34-6.

[9] SHAKTOUR, M. Design of Active Filter by using Differential Voltage CCII (DVCII). In *IMPAS CS International Conference 2010*. pp. 290- 293. ISBN: 978-80-214-4138-5.

[10] SHAKTOUR, M. Realization and Implementation of High-Order Ladder Filter. In *Electronic Devices and Systems EDS 09.* Brno-Czech: 2009. pp. 356- 359. ISBN: 978-80-214-3933-7.

[11] SHAKTOUR, M. VDTA-C current-mode universal 2nd order filter. *Slaboroudý obzor, 2011*, roč. 67, č. 2, pp. 1- 3. ISSN: 0037-668X.

[12] SHAKTOUR, M., JOSEF, J., VADEL, K. Differential-input buffered and transconductance amplifier (DBTA): a novel building block for analog signal processing, In *Proceedings of the 2009 RISP International Workshop on Nonlinear Circuits and Signal Processing - NCSP'09*, Honolulu, Hawaii, USA, 2009, pp. 542–545.

[13] SHAKTOUR, M., JOSEF, J., VADEL, K. Differential-input buffered and transconductance amplifier (DBTA)-based new trans-admittance- and voltage-mode first-order all-pass filters, In *Proceedings of the 6th International Conference on Electrical and Electronics Engineering - ELECO'09*, Bursa, Turkey, 2009, pp. 256–259.

[14] SHAKTOUR, M., JOSEF, J., VADEL, K., CICEKOGLU, O. New active-C grounded positive inductance simulator based on CFTAs, In *Proceedings of the 33th International Conference on Telecommunications and Signal Processing -TSP'10*, Baden near Vienna, Austria, August 2011, accepted, to be published.

[15] SHAKTOUR, M., VADEL, J., JOSEF, K., LAMS, A. Novel mixed-mode KHN-equivalent filter using Z-copy CFTAs and grounded capacitors, In *Proceedings of the 4th International Conference on Circuits, Systems and Signals - CSS'10*, Corfu Island, Greece, 2010, pp. 87–90.

[16] SHAKTOUR, M. New voltage-mode universal filter and sinusoidal oscillator using only single DBTA, *International Journal of Electronics*, 2010, vol. 97, no. 4, pp. 365–379. (Impact Factor 2009 = 0.430)

[17] SHAKTOUR, M., DAVID, J. A novel current-mode SIMO type universal filter using CFTAs, *Contemporary Engineering Sciences*, 2011, vol. 2, no. 2, pp. 59–66.

[18] SHAKTOUR, N., VRBA, K. Tunable current-mode multifunction filter using universal current conveyors, In *Proceedings of the Third International Conference on Systems - ICONS'08*, Cancun, Mexico, 2008, pp. 1–6.

[19] SHAKTOUR, M. CICEKOGLU, O. Kerwin Huelsman Newcomb filter using DVCCs, In *Proceedings of the Applied Electronics - APPEL'09*, Pilsen, Czech Republic, 2011, pp. 161–164.

[20] BIOLEK, D.; SHAKTOUR, M.; BIOLKOVÁ, V.; KOLKA, Z. Current-Input Current-Output Universal Biquad Employing Two Bulk- Driven VDTAs. *In Proc. of Int. Congress on Ultra Modern Telecommunications and Control Systems*. Petrohrad, Rusko: IEEE, 2012. p. 101-106. ISBN: 978-1-4673-2015- 3.

**Foreign languages:**

Czech, English, and Arabic Language

## Personal skills and competences:

MS Windows, MS Office, Photoshop, OrCAD PSpice.

## Hobbies:

Reading, Football, Travelling, Computers.

Alkhoms, September 14, 2016

Dr. Ing. Mahmoud Ahmed Shaktour.

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