

CURRICULUM VITAE

Elena Trotskovsky

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ORT Braude College, Department of Electric and Electronics Engineering,
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EDUCATION

M.Sc. 2009, Department of Education in Technology and Science, Technion, Haifa, Israel.
Dissertation: "Engineering Thinking according to Experts and Students: Theory, Implementation and Pedagogy".

M.Sc. 1978, Industrial Electronics, Faculty of Electronics, Ufa Aviation University, Ufa, Russia. Thesis: "Combined memory development"



RESEARCH INTERESTS

- Engineering education
- Engineering thinking
- Students' cognitive activities in learning process.

ACADEMIC APPOINTMENTS

1994 – present	Adjunct Lecturer, Teacher, Senior Teacher, ORT Braude College, Department of Electric and Electronics Engineering
2008	Adjunct Lecturer, the Technion – Israel Institute of Technology, Faculty of Mechanical Engineering
1980 – 1984	Lecturer, Faculty of Automation, Ufa Oil Technical University, Ufa, RUSSIA

TEACHING EXPERIENCE

ORT Braude College of Engineering:

Undergraduate Courses:

Switching and Digital Systems
Digital Electronics
Introduction to Control
Electricity and Electronics 1
Electricity and Electronics 2
Digital Electronics Laboratory

The Technion–Israel Institute of Technology

Undergraduate Courses:

Introduction to Mechatronics

Ufa Oil Technical University

Undergraduate Courses:

Electrical Networks Theory

Electrical Machines

Electrical Engineering Laboratory

PROFESSIONAL ACTIVITIES

ORT Braude College:

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| 2010 – Present | Member, ORT Braude College, Collegial Committee of Academic Affairs |
| 2010 – Present | Member, ORT Braude College, Collegial Committee of Excellence |

LIST OF PUBLICATIONS

Refereed Papers

1. Trotskovsky, E., Waks, S., Sabag, N., and Hazzan, O. Students' misunderstandings and misconceptions in engineering thinking. Accepted to *International Journal of Engineering Education*, 2012.
2. Sabag N., Trotskovsky E. Students' Reflections on their Internship Design Project in Industry. In: W. Aung, V. Ilic, V. Ilic, O. Mertanen, J. Moscinski, J. Uhomoibhi (Eds). *Innovations 2012 World Innovations in Engineering Education and Research*, pp. 305-314.
3. Waks S., Trotskovsky E., Sabag N., Hazan O. Engineering Thinking: The Experts' Perspective. *International Journal of Engineering Education*. Vol. 27, No. 4, pp. 838-851, 2011.
4. Sabag N., Trotskovsky E. Engineering Thinking: Characterization by Experts and its Appearance in Graduate Design Projects. In: W. Aung, V. Ilic, J. Moscinski, J. Uhomoibhi (Eds). *Innovations 2011 World Innovations in Engineering Education and Research*. 2011, pp. 401-411.
5. Sabag N., Trotskovsky E. Reflection in Engineering Design. *MoreTech. Journal of National Center of Technology teachers*. July 2010. pp. 9 – 20.
6. Sabag N, Trotskovsky E. "Internship in Electrical and Electronics Engineering". *MoreTech. Journal of National Center of Technology teachers*. 2009. pp. 14 – 18

Other Publications

Thesis:

Trotskovsky, E., 2009. *Engineering Thinking according to Experts and Students: Theory, Implementation and Pedagogy* (Master's thesis, Technion – Israel Institute of Technology).

Professional Reports:

Valeev A., Chigvintsev S., Trotskovsky E., 1982. Signals Transmission and Receiving Method. *Collected reports of Annual Conference, Ufa Oil Technical University*, Ufa, Russia.

Patents:

Bonn G., Levertov V., Valeev A., Chigvintsev S., Trotskovsky E., Zinov A., 1981. Signals Transmission and Receiving Device. Author certificate No. 985809. (In Russian)