

Adi Minikes

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Education	PhD in Mechanical Engineering (direct program - full scholarship) <i>Technion – Israel Institute of Technology, Haifa, Israel</i> • Research on non-contacting levitation and transportation of objects by pressure radiation induced by ultrasonic structural vibrations – analytical, numerical and experimental study. Grades average (94)	<i>98-04</i>
	Master in Business Administration (MBA) <i>Tel-Aviv University (Recanati), Tel Aviv, Israel</i> • Focusing on Technology Management and Business Strategy. Grades average (86)	<i>99-02</i>
	BSc in Mechanical Engineering (Cum Laude) <i>Technion – Israel Institute of Technology, Haifa, Israel</i> • Majoring in Dynamics, Mechanical Design, and Mechatronics. Grades average (88)	<i>94-98</i>

Experience	Head of Section, Rafael - Advanced defense systems ltd, Israel • Research and development in the fields of Dynamics of Rotating Systems and Fluid Dynamics, including experimental laboratory work.	<i>05-present</i>
	Lecturer, Technion –Israel Institute of Technology – Faculty of Mechanical Engineering • Teaching course: Dynamics of rotating systems.	<i>10-present</i>
	Researcher, Dynamic Laboratory, Technion –Israel Institute of Technology • Modeling the dynamical behavior of MEMS devices, performing experimental measurements and analyzing the structural vibrations.	<i>98-04</i>
	Teaching Assistant, Technion –Israel Institute of Technology • Class tutorials for undergraduate students in the courses: Fluid Dynamics, Heat Transfer and Mechanical Vibrations.	<i>98-04</i>
	Student Position, Environmental Laboratory, Elbit systems ltd, Israel • Designing and performing laboratory experiments for testing the durability of developed products to environmental hazards according to US Military standards.	<i>96-98</i>

**Academic
Publications**

- **A.Minikes and I.Bucher**, "Coupled dynamics of a squeeze-film levitated mass and a vibrating piezoelectric disc – numerical analysis and experimental study", *Journal of sound and vibration*, 263 (2), pp.241-268 (2003).
- **A.Minikes and I.Bucher**, "Non-contacting lateral transportation using gas squeeze film generated by flexural traveling waves-numerical analysis", *J. Acoustic. Soc. Am.* 113 (5), pp. 2464–2473 (2003).
- **A.Minikes, I.Bucher and S. Haber**, "Levitation force induced by pressure radiation in gas squeeze films", *J. Acoustic. Soc. Am.* 116 (1), pp. 217-226 (2004).
- **A.Minikes, R.Gabay, I.Bucher and M.Feldman**, "On the sensing and tuning of progressive structural vibration waves", *IEEE Trans. Ultra-son., Ferroelect., Freq. Contr* Vol.5 No.9 pp.1565-1576 (2005).
- **A.Minikes, I.Bucher and G. Avivi**, "Damping of a micro-resonator torsion mirror in rarefied gas ambient", *J. Micromech. Microeng.* 15 1762-1769 (2005).
- **A.Minikes and I.Bucher**, "Comparing numerical and analytical solutions for squeeze-film levitation force", *Journal of Fluids and Structures* 22 pp.713–719 (2006).

**Awards &
Scholarships**

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|---|-------|
| • Katzir Scholarships Program (Israeli Ministry of Defense) , Scholastic excellence. | 08 |
| • Prof. David and Olga Pnueli Award , Excellence in the PhD research. | 05 |
| • The Israel Academy of Science , Research grant for four years. | 04 |
| • Miriam and Aaron Gutwirth Award , Excellence in graduate studies (twice). | 03,04 |
| • Technion Teaching Assistant Award , Based on students rating (twice). | 02,03 |

* Recommendations, certifications and any other necessary information will be given upon request.