

Alon Greenbaum

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Education	<p>MS, excellence program, Electrical Engineering. GPA: 91.4 Tel Aviv University, Tel Aviv, Israel Coursework in Information Theory and Signal Processing. Advisor: Dr. Yael Hanein Thesis: "Electrical Interfacing with Engineered Neuronal Circuits"</p> <p>BS, Electrical Engineering, <i>Cum Laude</i>. GPA: 91.5 Tel Aviv University, Tel Aviv, Israel Majored in Communication and Computers.</p>	<p>October 2006-April 2009</p> <p>October 2003 -July 2007</p>
Work Experience	<p>Tel Aviv University, School of Electrical Engineering, Tel Aviv, Israel <i>Teaching Assistant</i></p> <ul style="list-style-type: none">• Introduction to MEMS, spring 2008• Digital Logic Systems, fall 2007• Digital Electronic Circuits, spring 2007 <p>Teach weekly recitation session; write assignments, grade papers and exams.</p> <p>IBM, Haifa Development Labs, Israel <i>Hardware Engineer, Chip Design Verification Team</i> Verification process, including learning a design thoroughly, writing and running tests in complex environment, featuring several verification tools such as: C, Vera, Specman, Sugar and several IBM toolboxes. The position requires strong technical skills and fast adaptation to a dynamic environment.</p>	<p>October 2006- October 2008</p> <p>October 2005- October 2006</p>
Military Service	<p>Israeli Air Force – Lieutenant Air force field intelligence unit.</p>	<p>January 1999-May 2003</p>
Research Experience	<p>The Center of Nanoscience and Nanotechnology, Tel Aviv University, Israel <i>Research Assistant</i> Design and fabrication of micro-electrodes coated with Carbon Nano Tubes to record and stimuli nerve cells of various biological models in vitro. The position requires work in clean rooms and various biological protocols.</p>	<p>October 2006- October 2008</p>

Publications**One to one neuron-electrode interfacing**

Alon Greenbaum, Sarit Anava, Amir Ayali, Mark Shein, Moshe David-Pur, Eshel Ben-Jacob and Yael Hanein.
In press, Journal of Neuroscience Methods, 2009.

Process entanglement as a neuronal adhesion mechanism

Raya Sorkin, Alon Greenbaum, Moshe David-Pur, Sarit Anava, Amir Ayali, Eshel Ben-Jacob, and Yael Hanein.
Nanotechnology, 2009; 20: 015101

The regulative role of neurite mechanical tension in network development

Sarit Anava, Alon Greenbaum, Eshel Ben Jacob, Yael Hanein and Amir Ayali.
Biophys J, 2009; 96: 1661-70.

Engineered neuronal circuits shaped and interfaced with carbon nanotube microelectrode arrays

Mark Shein, Alon Greenbaum, Tamir Gabay, Raya Sorkin, Moshe David-Pur, Eshel Ben-Jacob, Yael Hanein. In press, Biomedical Microdevices, 2009; 11: 495-501

Presentations

“Electrical Interfacing with Engineered Neuronal Circuits.” September
The paper was presented at the *Euroensors2008* 2008
conference at Dresden.

Awards and Honors

Engineering Faculty award for high achievements (2008)
Dean’s Honor list, Third academic year
Intel Study grant for outstanding students, Second academic year

Computer Skills

Computer languages: C++, JAVA.
Operating Systems: UNIX, MS-DOS, Windows.
Applications: Microsoft Word, Excel, PowerPoint, MATLAB, Pspice, Ledit.

Languages

Fluent in English and Hebrew, fair Spanish.