

SIGALIT HED

EDUCATION AND ACADEMIC EXPERIENCE

10/2007 – **Tel-Aviv University** **Tel-Aviv, Israel**
PhD Student, Applied Mathematics, School of Mathematical Sciences, Faculty of Exact Sciences.
Supervisor: Prof. David Levin.

1988 – 1990 (Entitled **3/1992**) **Tel-Aviv University** **Tel-Aviv, Israel**
M.Sc., Computer Science - Computer Aided Geometric Design (CAGD, CAD, Applied Mathematics).
Thesis: "*Analysis of Subdivision Schemes for Surface Generation*". **Published Papers:** 3.
Supervisors: Prof. Nira Dyn and Prof. David Levin, *School of Mathematical Sciences, Faculty of Exact Sciences.*

- Graduated with high honour. Avg. grade: 93. Thesis grade: 97.
- Received scholarship award for the graduate studies.
- Cited on the Dean's list for the academic achievements.

1985 – 1988 **Tel-Aviv University** **Tel-Aviv, Israel**
B.Sc., Mathematics and Computer Science

- Graduated with high honour.
- Cited on the Dean's list for the academic achievements in the 1st year.

1989 – 1990 **Tel-Aviv University** **Tel-Aviv, Israel**
Research Assistant, School of Mathematical Sciences, Faculty of Exact Sciences

- Developed an interactive 3D rendering graphic application that demonstrated CAGD algorithms.

1988 – 1991 **Tel-Aviv University** **Tel-Aviv, Israel**
Teaching Assistant, School of Mathematical Sciences, Faculty of Exact Sciences

- Received an excellence award and a scholarship for the teaching assistance work.

PROFESSIONAL EXPERIENCE

1999 – 2004 **Accretech Israel [TSK]** **Herzliyya, Israel**
Accretech developed multi-disciplinary systems for automated defect detection on wafers/masks, in the semiconductor industry, combined of massive software, optics, hardware, electronics and mechanics components.
Software Development Manager

- Head of field wafer-processing. Software development manager. Contributed significantly to the planning and specifications, design and implementation of the product.
- Developed Client/Server applications, process synchronization, image processing and acquisition, machine optics and mechanics calibrations, alignment algorithms, using C++ on Windows XP.

1994 – 1999 **Scidel Technologies Ltd.** **Ra'anana, Israel**
Scidel developed an innovative system for a virtual advertisement in TV Broadcasting and Digital Video, by means of Image Processing and Real Time. Scidel is a Scitex spin-off.
Software Team Leader

- A member of the founding team of the company.
- Developed and responsible for the colour algorithms of the project.
- Implemented the algorithms under WinNT using C++, O.O methodology. Cooperated with the RT team.

1991 – 1994 **Scitex Corporation Ltd.** **Herzliyya, Israel**
Scitex developed multi-disciplinary systems for the pre-press industry. The underlying project dealt with plotters, colour separations, postscript, raster and screening methods, developed on Macintosh.
Software and Product Leader

- Programmer and later promoted to team leader of the project, including GUI, algorithms and drivers.
- Managed the software development, application and QA of the product throughout its life cycle.
- Involved in customer visits, training, support, pre-sale and exhibition activities for the product.