

## Michal Shalev

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## Education

1985 to  
1988

### **Weizmann Institute of Science.**

M.Sc. in Computer Science.

*Thesis:*

**On the operational semantics of Statechart**, under the supervision of **professor Amir Pnueli**.

The statechart formalism has been suggested by professor David Harel as a visual extension of finite state machines, which is suitable for the behavioural description of reactive systems. The thesis provides formal syntax and semantics for statecharts, and presents efficient procedures to compute the set of admissible steps.

1982 to  
1985

### **Tel Aviv University.**

B.Sc. in Mathematics and Computer Science (with Honours).

## Publications

**A. Pnueli, and M. Shalev. What is in a Step: On the Semantics of Statecharts.** In T. Ito and A. R. Meyer, editors, Theoretical Aspects of Computer Software, volume 526 of Lecture Notes in Computer Science, pages 244-264. Springer-Verlag, 1991.

**A. Pnueli, and M. Shalev. What is in a Step?** In J.W. Klop, J.-J.Ch. Meijer, and J.J.M.M. Rutten, editors, J.W. De Bakker, Liber Amicorum, pages 373-400. CWI, Amsterdam, 1989.

## Professional Experience

1997 to  
Present

### **Keshev Thema-Analysis Ltd.**

Information Technology Officer

*consultant in Information Technology*

Leading Information Technology team in strategic consulting projects. Integrating computerized and online technologies, human interfaces, information management and psycho-social aspects of human activity in organizations and communities.

*Co-founding new initiative focusing on Personalization of Human & Computer interaction*

Co-founded new initiative of Keshev Thema-Analysis Ltd. focuses on Human & Computer interaction. Developed a unique approach to personalization and marketing research, based on user interaction, psychological factors, and the content conversed.

The assignment involves deep interest in and understanding of state-of-the-art technology, its trends, and its inter-relation with social and cultural factors and changes.

*Lecturing in High Education institutes*

Constructed and Lectured a course in introduction to Data Structures and Algorithms at The Ruppin Institute of Higher Education (for students in first degree in Computer Engineering).

Lectured various courses on IT & IT strategy in few high education institutes.

1995 to  
1996

## **Adapt Technologies Ltd.**

### Quality Manager.

#### *Diagnosing and planning of quality strategy*

Analyzed technology aspects: the product developed, competitive products, product life-cycle and development environment & tools.

Analyzed organizational aspects: personal, inter-personal (peers, superiors & subordinates), functional, structural, cultural, management process and supervision, motivation and promotion.

Provided alternative quality strategies that on the basis of the above analysis, one of which was chosen to direct the software process improvement.

#### *Processes design, assimilation and evaluation*

Focused on the critical processes requiring improvement, defined implementation phases and improvement measurements.

#### *Quality Assurance using Automated tools*

Designed and implemented automatic testing suite using Mercury testing tools.

1992 to  
1994

## **Eventus Ltd. (forerunner to Demantra)**

### Product Development Manager.

#### *Managing product development*

Managed a development team of a product for the financial market (called Public Analyst). The product is a spreadsheet environment enabling analysts in trading rooms to develop their models for automatic trading the market.

The product was designed with high awareness to the customer needs and capabilities. This conveyed the choice to develop a spreadsheet environment, with special orientation to time-series analysis.

The product was developed with state of the art technologies, using object-oriented methodologies (analysis, design & programming) and cross-platform tool (StarView). The need to reach the market ASAP led to integration with existing tools, part of which was done with foreign companies.

1988 to  
1992

## **IET - Intelligent Electronics Ltd. (forerunner to ClickSoftware)**

### Product Development Manager.

#### *Managing product development*

Managed the design and development of a product for on-line documentation (called OnDoc). The product is a WYSIWYG authoring tool for technical writers. Specialised in object oriented analysis, design and programming (C++ and Lisp).

#### *Managing quality assurance*

Initiated and managed the quality assurance tests of a product (named AITEST). The product is an expert system for fault diagnosis in electronic circuits.

1991 to  
1992

## **Weizmann Institute of Science - Department of Science Teaching.**

### Curriculum Developer.

Developed material for the high school course "Fundamentals of Computer Science". The course uses the programming language Pascal as a vehicle for learning the core of computer science: Algorithms.

1984 to  
1985

## **Indigo Ltd.**

### Software Engineer.

Designed and developed report generator for information system.