

HAIM XXXXX, Ph D

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DIRECTOR OF ENGINEERING, R&D

Engineering manager and scientist with 15+ years in technical leadership and project execution. Significant company contributor focusing on leading cross-functional engineering teams through product development, manufacturing to market introduction. Demonstrated track record of delivering innovative solutions and exceeding forecasts leading to increased investment in start-up environment. Recognized technical leader and inventor creating maximum value and delivering cutting-edge innovations.

CAREER HIGHLIGHTS

- ☑ Innovation in design of complex optical components in PCB manufacturing, networks & communication, digital printing and SEM testing technologies (3 issued US patents).
- ☑ Broad expertise in Solar Energy industry, Photo-Voltaic & Thermal energy co-generation systems, build and launch (3 pending International patents).
- ☑ Leading successful initiatives at start-ups resulting in investments of up to \$3.5M and start-up buyouts.
- ☑ Project/Budget management of up to \$1M and implementation of Advanced Quality engineering methods: APQP, QFD, DVP, DFM/DFA, CAE, PFMEA

PROFESSIONAL EXPERIENCE

SENIOR SYSTEM ENGINEER AND PHYSICIST – Orbotech, Yavne, Israel – 2011-present PRINTED CIRCUIT BOARD DIVISION

Orbotech is a world leader in automated systems for electronics reading (inspection, verification and testing) for manufacturers of printed circuit boards, flat panel displays and micro-electro-mechanical systems.

- Developing new 3D digital printing process for manufacturing of PCB's.
- Leading development of novel Automatic Optical Rework (AOR) for repairing defects on advanced boards PCB production line saving \$\$\$ in discarded defective boards.
- Designated as “Main point of contact for Division New Technologies”. Playing a key role for commercialization of the Automatic Optical Rework in beta sites.
- Recognized as an “Outstanding Employee of PCB Division” in 2014

HEAD OF PHOTOVOLTAIC AND ENERGY COLLECTION GROUP – Zenith Solar, Israel – 2008-2011

A start-up company in Combined Heat and Power Solar Energy field, leader in design of high efficiency multi-junction cells and non-parabolic mirrors, acquired by Suncore China in 2013.

- Led Product Lifecycle Cycle (PLC) team developing optics for Concentrated Photovoltaic (CPV) systems. Launched successful pilot resulting in sales of solar arrays with combined heat 7.5kWp generation per module to Korea, Japan and Middle East.
- Initiated development of proprietary technology of one-piece mirror dish achieving simplified construction with cost savings of 35%.
- Played key role in leveraging patented technologies and exceeded forecasts to attract additional investment of \$3.5M in the start-up and company's acquisition by Suncore China.
- Established annual goals for the R&D, managed budgets ranging from \$50K to \$1M, focused on achieving project milestones and improved operational efficiency of sub-contractors by 25%.

MANAGER OF PHYSICS GROUP – Eastman Kodak Company, Hertzlia, Israel – 2005-2008 DIGITAL FRONT END SOLUTIONS DIVISION

Graphic communications, imaging and software technology imaging for computer-to-plate and digital printing.

- Directed development from proof-of-concept and prototyping to execution and patenting of hybrid optical imaging head for simultaneous printing and engraving.
- Designated as “First point of contact for Division Innovation”; identified inventions and facilitated patenting.
- Mentored team of 5-10 engineers by motivating, promoting individual growth and setting goals. Devised new training manual for new members of the group.

DIRECTOR OF OPTICS – Kailight Photonics (currently Finisar Corporation), Rehovot, Israel – 2000-2005

<https://www.finisar.com/>

A start-up technology leader in 40Gb/second optical-fiber transmission communication acquired for \$40M by Optium Corp in 2007. Kailight's optical transmission, signal regeneration and wavelength conversion technology provided breakthrough performance of next-generation optical-networking solutions.

- Initiated development of Wavelength Optical Converter solving a problem in existing optical fiber networks, allowing required 40Gb/second communication without expensive network infrastructure replacement.
- Assured competitiveness of the products against strong competition, improved positioning of company by patenting technology and attracting potential clients to perform technology evaluation. Efforts brought \$7M in new investments and, ultimately, buyout by Optium.

PROJECT PHYSICIST – Applied Materials, Rehovot, Israel – 1997-2000

PROCESS DIAGNOSTIC AND CONTROL

The group developed advanced inspection tools for detecting defects in semiconductor chips to enable meeting demands for faster, smaller and more multi-functional devices.

- Improved efficiency of defect detection by innovative design of Scanning Electron Microscopy (SEM) by 20% which allowed clients to achieve critical wafer dimension patterning control in high –performance devices, and provided the company a significant lead over competitors.

EDUCATION

The Hebrew University of Jerusalem, Department of Physics, Jerusalem, Israel

PhD in Physics

MS in Physics (magna cum laude)

Tel-Aviv University, Department of Physics, Tel-Aviv, Israel

BS in Physics