

# CV of Hong Po

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## CAREER PROFILE

Dynamic senior level management executive with extensive experiences in Research and Development, and Product Design environments. Global thinker with technical collaboration experience in several renowned foreign institutes. Far-sighted strategist capable of technology and IP tracking to generate proprietary IP portfolio to safeguard novel product ideas. Effective leader with superior team-building and coordination skills to shorten Product Development Process time. Prolific innovator equally comfortable with product concepts and process improvements.

## SELECTED ACCOMPLISHMENTS

- Raised \$7.5M venture capital to form LaserSharp Corporation, a fiber laser technology based company.
- Created a solid portfolio of IP – 30 patents disclosures filed within 24 months.
- Spearheaded the development of a novel 3 wavelengths all fiber Raman Gain module with independent power adjustment and peerless fast response. This highly acclaimed development, from concept to prototype, was completed in 9 months.
- Attained the incorporation of high concentration levels of germanium and phosphorus (16 mole%) in preforms for high Raman Gain fibers.
- Co-invented the landmark “double clad fiber laser” patent and pioneered the development of high power fiber laser.
- Developed a revolutionary high power fiber laser for Polaroid’s large format dry media printer bailing out a failed outsource contract worth \$15M.
  - Authored a successful DARPA proposal of \$500K for 100W high power fiber laser project.

## PROFESSIONAL EXPERIENCE

**Wonder Light Technology**, Anshan, Liaoning China 2013 to present

- **President**  
Company manufactures key components, pump sources and active fibers, for high power fiber lasers

**Northeastern University**, Boston, Massachusetts 2006 to 2011

### Senior Lecturer

Responsible for creating and teaching undergraduate courses in optics and photonics.

**HP Consulting**, Sherborn Massachusetts 2008 - 2009

Consulting work on High Power Fiber Laser Systems

**Liekki Oy**, Lohja, Finland 2004 - 2005

### Vice President of Advanced Research

Responsible for leading the following:

- Analyzing Liekki’s major accounts and current and emerging market needs.
- □□ Identifying new and more effective ways to address them with novel product concepts.
- □□ Developing new ways to realize existing products with higher performance and lower cost.
- □□ Analyzing Liekki’s internal processes and the overall value chain and identifying, where and how Liekki can de-bottleneck or create competitive advantage with new technology.
- Analyzing IPR landscape, identifying opportunities and developing/executing the approach to create competitive advantage through IPR.

- Identified the major causes of photodarkening problems in doped fibers and means of eliminating these. Indicated key process modifications to improve preform quality and lower production cost.
- Created an Optical Engine product roadmap based on the assessment of the market opportunities.
- Responsible for the development of high performing, cost effective Optical Engines by creating an ultra-flat package concept for effective heat removal; proper choice of fiber structure for nonlinear effect mitigation and safe coiling diameter for compactness; guiding the external supplier for a custom-designed all fiber pump combiner; working with the Fiber Optic Research Center in Moscow to provide Liekki with photosensitive fibers and low loss fiber gratings.
- As a member of the IPR committee helped to map out strategies in filing and maintaining Liekki's key process patents worldwide. Contributed in analysis of potential infringement and provided technical insights and judgment on new filings.
- Provided support in technical marketing for major US military clients. Instrumental in establishing contacts with major European Laser companies and Institutes. Contacted and visited all the largest Chinese Laser companies, and formulated a rational business strategy to penetrate the China market.

**LaserSharp Corporation**, Hopkinton, Mass.

2000 – 2002

▪ **Chief Technology Officer & Founder**

- Set up MCVD process facilities for rare earth doped and specialty preforms, draw tower for fiber fabrication, laboratory facilities for research and engineering development activities.
- Attracted and assembled a core of highly talented technical professionals.
- Organized R&D, Process Development and Product Engineering departments.
- Directed the targeting, planning, budgeting and execution of key breakthrough projects.
- Developed proprietary highly efficient (75 percent slope efficiency) Yb-doped double-clad fiber laser with best low noise performance among known published data.
- Introduced with great success first product GainStar, a Raman gain module, during OFC 2002. Delivered several engineering models for telecom system companies for evaluation and received positive feedbacks.
- Implemented 1.3  $\mu\text{m}$  Raman amplifier for Cable TV industry in 3 months period.
- Qualified and documented the MCVD and drawing process for manufacturing.
- Established contact and formed alliances with leading institutes worldwide including the renowned Russian Fiber Optic Research Center in Moscow.

**Polaroid Corporation**, Cambridge, Mass.

1984 - 1999

**Distinguished Scientist** (1997 – 1999)  
**Technical Manager** (1992 – 1997)  
**Senior Principal Engineer** (1984 – 1992)

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**EDUCATION**

**Master of Science in Electrical Engineering**

Massachusetts Institute of Technology, Cambridge, Massachusetts

**Bachelor of Engineering, Electronic and Electrical Engineering, Honors I**

Sheffield University, Sheffield, U.K.

**AWARDS**

**Grass Instrument Fellowship**, MIT

**Mappin Medal and Prize for Electronics**, Sheffield University.

**Douglas Harrison Prize for Electronics**, Sheffield University.

**AFFILIATIONS**

Society of Photographic Instrumentation Engineers

Optical Society of America

Institute of Electrical and Electronic Engineers

**PUBLICATIONS**

(to be furnished if necessary)

**PATENT LIST**

(to be furnished if necessary)