RESUME

Park, Min Sang

201-ho, 917-2, Dang–dong, Gunpo-si, Gyeonggi-do, KOREA (R.O.K)
(C) +81-19-529-9639
E-mail: azopark@hanmail.net

STUDY OBJECTIVE

To obtain extensive knowledge and in-depth understanding of high performance polymers through a Ph.D. program in order to contribute to the development of polymer science and fields of engineering and material science.

EDUCATION

2001-2003 **Pusan National University** **Busan, KOREA**

MSc in Polymer Science & Engineering **[GPA 3.91/4.0]**
Thesis: ***Fabrication of HPDLC Gratings for Full Color Display Device***

Brain Korea 21 Scholarship from Korean Government
Industrial-educational fellowship from Samsung SDI in 2002

1994-2000 **Pusan National University** **Busan, KOREA**

BSc in Polymer Science & Engineering
Cumulative GPA: **[3.44/4.0], Major: [3.61/4.0]**

2/1995-8/1997 **Korean Army** **Gyeonggi-do, KOREA**

Mandatory Military Service

WORK EXPERIENCE

Significant contributions to the Development & Commercialization of Mobile LCD in SAMSUNG SDI

2/2003 ~ 5/2006 **SAMSUNG SDI Co., Ltd** Mobile Display Enterprise Team **Ulsan, KOREA**

Engineer, Panel Development Team

- Experience in LCD processes
- Synthesis of LC alignment materials (photo-reactive poly-imides)
- Development of advanced photo-resists for color filter
- Photolithography: ITO and metal patterning
- Modified Electro controlled Birefringence ECB mode LCD Development
- Active matrix TFT LCD Development
- Accomplishment of 6 Sigma PJT as PJT leader [3 PJT]

3/2001 ~ 10/2002 **Korea Ministry of Science and Technology**

Researcher of IMT 2000 PJT

Developed high performance display device

- Synthesis of photo-curable polymer
- Full color switchable Hologram

3/2001 ~ 12/2002 **Korea Science and Engineering Foundation**

Researcher of Hyper-structured Organic Materials Research Center

Molecular Design of Polyurethane for

- Organic thin film for optical memory

3/2001 ~ 2/2002 **Pusan National University**, Department of Polymer Science and Engineering

Teaching Assistant(TA)

Taught undergraduate students

- Laboratory in Polymer Processing
- Functional Polymer

3/2000 ~ 2/2001 **Pusan National University**, Properties and Processing of Functional Polymer Lab

Researching Assistant(RA)

PUBLICATION

1. **M. S. Park** and B. K. Kim, ***KIEE International Transactions on Electrophysics and Application***, 11C(3), 75-80(2001).
"Mono-functional Monomer Effects of Reflection Mode and Transmission Mode of Holographic Polymer Dispersed Liquid Crystal"

2. **M. S. Park**, Y.H. Cho, B.K. Kim and J.S. Jang, ***Current Appl. Phys.***, *2(3), 249-252 (2002).*
"Fabrication of Reflective Holographic Gratings with Polyurethane Acrylates (PUA)"

3. **M. S. Park**, B.K. Kim, J.C. Kim, ***Polymer***, *44(5), 1595-1602 (2003)*
"Reflective Mode of HPDLC with Various Structures of Polyurethane Acrylates"

4. J.Y. Woo, **M.S. Park**, B.K. Kim, J.C. Kim, and Y.S. Kang, ***J. Macromol. Sci., Physics***, 43(4), 833-844, (2004)
"Reflective Holographic Polymer Dispersed Liquid Crystals Based on Polyurethane Acrylates"

5. **M. S. Park** and B.K. Kim, ***Nanotechnology***, *17(8), 2012-2017 (2006).*
"Transmission holographic gratings produced using networked polyurethane acrylates with various functionalities"

AWARDS

2002	Recipient of "Academic Award" from Korea Science and Engineering Foundation via Hyper-structured Organic Materials Research Center(HOMRC)
2004	Recipient of "6 Sigma PJT Award in 2004" from Samsung SDI
2005	Recipient of "6 Sigma PJT Award in 2005" from Samsung SDI

PATENTS

KR (2002-0071410)		Fabrication of HPDLC with polyurethane prepolymer
KR (2004-0104507)	CN 1786798 JP 2006-171682 US 20060146265	LCDs and method of making device 1
KR 2005-0119867	US2006-545995 JP2006-129192	LCDs and method of making device 2

ADDITIONAL SKILLS

- Chemical synthesis
- Photolithography process
- CAD Drawing for device design
- Display Device Testing
- LCD material evaluation (efficiency, brightness, lifetime) and chemical analysis
- Training of DOE (Design of Experiment)
- Patent analysis
- Native Korean, fluent in English, working knowledge of Japanese

EXTRACURRICULAR/COMMUNITY ACTIVITIES

- Worked as a volunteer guiding foreign visitor for 2002 World Cup
- Worked as a volunteer at PUSAN International Film Festival (1998 ~ 2001)
- Starting from 2003, have supported for the amblyopic students through annual donates to “Samsung SDI’s Community Service”
- Member of the Polymer Society of Korea
- Member of the Korean Liquid Crystal Association
- Member of Soccer Club of Pusan National University (1999 ~ now)

REFERENCES Furnished upon request

I hereby certify that all the above statements are true and correct to the best of my knowledge.