

Hongyul Yoon



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TRIZ trainer and facilitator

Highlights

- TRIZ specialist, #63, certified in 2004 by MATRIZ
- TRIZ trainer who received the accreditation by MATRIZ for certification of level 1 to level 2 of MATRIZ since 2008.
- Experience of trainings every year for more than 100 engineers and researchers and facilitation of problem solving projects more than 10 cases for companies including LG, Samsung, POSCO, Hyundai Motors, etc. since 2005
- Experience as an engineer in many technical systems for LG Electronics during about 10 years
- Master's degree in Mechanical Engineering from Seoul National University

Professional Experience

2005 – present

TRIZ Center (Seoul, South Korea) CEO

- Running Level 1 ~ 2 MATRIZ certification training program for Samsung SDI, RIST, etc. in South Korea
- Delivering Advanced TRIZ Courses for Samsung Electronics, Samsung SDI, RIST, POSCO, etc.
- Delivered internationally TRIZ training courses like TRIZ one week course for Iran in 2006 and TRIZ tutorial for Europe TRIZ Association in 2008
- Facilitating problem solving projects for Samsung SDI, POSCO, Hyundai Motors, Hyundai Mobis, Amore Pacific, etc.

2002 – 2004

TRIZ Korea (South Korea) Chief Consultant

- Delivered TRIZ courses and TechOptimizer trainings of Invention Machine program for LG Chem, LG Care, Samsung ElectroMechanics, POSCO, etc. in South Korea
- Delivered TRIZ Courses of DFSS, 6 Sigma for Samsung Electronics, Samsung Advanced Institute Technology, Halla, etc.
- Facilitated problem solving projects for POSCO, Samlip, etc.

1992 – 2001

LG Electronics (Seoul, South Korea) Senior Engineer

- Managed noise reduction and vibration control projects and TRIZ application projects for home appliances like air conditioners, refrigerators, and microwave ovens
- Designed dishwashers, turbofans, axial fans, centrifugal pumps and new systems of fluid mechanics application
- Managed the TRIZ research group of Home Appliance Research Laboratory
- Built Innovation Process of Home Appliance Research including future planning and new technology development through TRIZ
- Delivered training courses like ‘Introduction to TRIZ’, ‘New member education of TRIZ’

Education

1990 – 1991

Master’s degree, Fluid Mechanics, Seoul National University, Seoul, South Korea

1986 – 1989

Bachelor’s degree, Mechanical Engineering, Seoul National University, Seoul, South Korea

TRIZ Education

2008	Advanced OTSM-TRIZ Workshop (40 hrs), Nikolai Khomenko, Toronto, Canada
2005	Advanced TRIZ Training (80 hrs), Valeri Souchkov, South Korea
2004 – 2005	TRIZ and Goldfire Course (80 hrs), Isak Bukhman, South Korea
2002	Innovation Master Course (80 hrs), Sergei Ikovenko, South Korea
2000	TRIZ Seminar (24 hrs), Valeri Souchkov, South Korea
1999	OTSM-TRIZ Seminar (80 hrs), Nikolai Khomenko, South Korea
1998	ARIZ Seminar (40 hrs), Dmitry Kucharavy, South Korea
1997	TRIZ Seminar (16 hrs), Nikolai Khomenko, South Korea
1997	TRIZ Seminar (8 hrs), Zinoby Royzen, South Korea
1997	Invention Machine Course (40 hrs), South Korea
1996	TRIZ Introduction Course (16 hrs), Alla Zusman and Boris Zlotin, Detroit, U.S.A.

List of Publications (fragment)

- 2012, “Functions of Modern TRIZ”, 2nd Conference on Problem Solving Strategy and Techniques, Teheran, Iran
- 2010, “OTSM-TRIZ Guide to Increase Effectiveness of Root Conflict Analysis”, 6th TRIZ Symposium in Japan, 2010, Atsugi, Kanagawa, Japan
- 2008, “A Study on Pointers to Effects for Non-technical Problem Solving”, European TRIZ Conference 2008, Enschede, The Netherlands
- 2008, “Case Study of ARIZ-85C Application to Isolation of the Binding of Target Proteins”, TRIZ Journal, www.triz-journal.com
- 2006, "Full Scheme Thinking and Feature Transfer for Creation of Blue Ocean", TRIZ Journal, www.triz-journal.com
- 2004, " Case Study : a Cooling Problem of Wire Rod Manufacture", TRIZCON, 2004, Seattle, USA
- 2003, “Computer-Aided Problem Solving according to Full Scheme Model of OTSM-TRIZ”, European TRIZ Conference 2003, Zurich, Swiss
- 2002, "How to Find and Formulate Contradictions out of the Initial Problem Situation", ETRIA Conference 2002, Strasburg, France
- 2001, "TRIZ Application to Noise Reduction of Home Appliances", AQS 2001, Standard Institute, Daejeon, Korea

- 1999, "TRIZ Application Using TechOptimizer", IM User Group Meeting, Munich, Germany
- 1998, "Case Study of TRIZ", IM User Group Meeting, Amsterdam, Netherlands (The First Case from Asia)
- 1996, "TRIZ Application of Noise Reduction of Window Air Conditioners", LG Electronics Home Appliance Lab.

Patents and Applications : Totally 47

Korea Patent Office : 42 patents and applications

U.S.Patent Office :

US 6883233, Fan guide

US 2002/0006328 A1, Fan guide

US 5415350, Water spraying device for tableware washer

European Patent Office :

EP 1070849 B1, Axial Flow Fan

Japan Patent Office :

JP07000336, WATER SPRAYING DEVICE FOR TABLEWARE WASHER

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