

## *Career Development for Engineers*

**27 July 2011, 10am–1pm**

**Infuse Theater**

**1 Fusionopolis Way, Connexis South Tower, Level 14**

**Organized by:**

IEEE Singapore (SG) &  
Institute for Infocomm Research, A\*STAR

**Co-Organized by:**

IEEE SG Student Branch &  
IEEE SG Women in Engineering (WIE)

**Register by 19 July, 2011**

**@ [http://meetings.vtools.ieee.org/meeting\\_registration/register/7235](http://meetings.vtools.ieee.org/meeting_registration/register/7235)**

### Programme:

Time	Topic	Speaker
9.30am	Registration	-
10.00am	Opening Address	Professor Lawrence Wong IEEE Region 10, Director
10.10am	Introduction to Career Development for Engineers	Mr. Russell Otter Head of Kelly Engineering Resources
10.30am	Invention to Spin Off!	Mr. Lux Anantharaman, iTwin.com, Co-Founder and Chief Executive
10.50am	What Engineer Can Do in Monetary Authority of Singapore (MAS)	Ms. Shwuyi Lee, Deputy Director (Office Technology), IT Infrastructure, Information Technology Dept. Monetary Authority of Singapore (MAS)
11.10am	A Journey to IEEE Fellow	Professor Susanto Rahardja, Deputy Executive Director (Research) Institute for Infocomm Research, A*STAR
11.30am	Q&A Session	
11.45am	Networking Lunch	
1.00pm	End of Programme	

**Mr. Russell Otter**  
**Head of Kelly Engineering Resources**  
**Kelly Engineering Resources,**

Russell Otter has over 14 years of experience in the recruitment profession, with the last 7 years specializing in the recruitment of professionals in the Shipping, Marine, Oil and Gas and Technical sectors.

Russell's career started as recruitment consultant with a MNC in the human resource industry. Throughout the years, his role has evolved from business development to operational management, managing complex teams of over 1 00 staff in several countries and recruiting key professionals in the Engineering industry. He has successfully developed major clienteles and achieved significant stakes for his companies. In 2005, Russell took over a recruitment company specializing in the Marine sector. In a short span of three years, he managed to increase the company's turnover from £600K to £2.6million. With his vast knowledge and experience in recruitment of the Engineering industry, he has been invited to Singapore for several key meetings and speaker engagements.

Currently, as Head of Kelly Engineering Resources, a specialist division of Kelly Services, Russell oversees operations of the unit and leads his team of recruiters towards growth of the business. Drawing on the formidable resources and infrastructure built by Kelly Services Inc., Kelly Engineering Resources focuses exclusively on the specialized staffing requirements of the clients.

Kelly Engineering Resources specializes in placing engineering professionals in contract, contract-to-hire and full-time employment across all disciplines including Aerospace, Chemical, Construction, Electrical, Heavy Equipment, Manufacturing, Oil & Gas, Pharmaceutical, Semi-Conductor and Telecommunications. Kelly Engineering Resources comprises of a team of consultants specializing in Engineering recruitment, offering excellent standard of service delivery to meet the needs of our clients.

Kelly Services, Inc. (NASDAQ: KELYA, KELYB) is a leader in providing workforce solutions. Kelly offers a comprehensive array of outsourcing and consulting services as well as world-class staffing on a temporary, temp-to-hire and permanent placement basis. Serving clients around the globe, Kelly provides employment to 480,000 employees annually. Revenue in 2009 was \$4.3 billion.

Visit [www.kellyservices.com.sg](http://www.kellyservices.com.sg) for more information.



**Mr. Lux Anantharaman,**  
**[iTwin.com](http://iTwin.com), Co-Founder and Chief Executive**



"Two years back, I wanted to check on some personal investments and finances that were stored on my computer at home. I was at the office and I realized that there was a need for a simple and secure remote file access solution. The secure stuff was way too complicated to configure, and the simple stuff was way too insecure. That led to the invention of iTwin."

After achieving a Bachelors degree in Electrical and Electronic Engineering from IIT in Chennai and a Masters degree from IISc in Bangalore, Lux worked first as an IT security researcher at the Institute of Systems Science, Singapore and then as senior researcher at Kent Ridge Digital Labs and the Institute for Infocomm Research. Lux specializes in PKI implementations, efficient digital certificate revocations and usable security. Lux was pursuing a part-time MBA at NUS Business School, Singapore, but put studies on hold because of potential of iTwin.

### **About iTwins**

iTwin is a user-friendly device for connecting any two online computers, anywhere in the world, safely and simply. It supports Microsoft Windows 7, Windows XP and Windows Vista. Unlike storage offerings with space limitations and privacy risks, iTwin's award-winning product comprises two identical halves that need only be plugged into two computers for them to be instantly connected and secured by hardware-based encryption. iTwin, honored as a 2009 finalist in the TechCrunch50 awards, makes remote file access as simple as using a flash drive while enabling users to replicate the experience of one computer on any other computer with an internet connection. Travel light, take as many of your tunes, videos and pictures as you'd like and eliminate leaking of sensitive data by leaving the laptop at the office. For more ideas on how to be productive and worry free with iTwin, please visit <http://www.iTwin.com>, or follow us on twitter @iTwinTweet and Facebook at <http://www.facebook.com/iTwinFeed>.

**Ms. Lee Shwu Yi**  
**Deputy Director (Office Technology),**  
**IT Infrastructure, Information Technology**  
**Monetary Authority of Singapore**

Shwu Yi has over 18 years in the IT field, the last 13 years with the Monetary Authority of Singapore's (MAS) Information Technology Department. Her current portfolio at MAS includes managing MAS public facing websites, the corporate intranet and the MAS' end user computing environment. Shwu Yi is a technologist who believes in the innovative and practical use of IT to improve business effectiveness and efficiency.

Some of the key projects that Shwu Yi has led at the MAS included the implementation of their first public facing Internet site and the design and delivery of their first Web Content Management system (WCM) when the use of WCM was still relatively new in Asia. She has been a strong advocate and pioneer of Knowledge Management (KM) initiatives since early 2000, successfully launching projects such as MASpedia, the MAS' corporate wiki, and more recently a Facebook styled Intranet for MAS.

Shwu Yi started her career as a research assistant in the National University of Singapore (NUS), researching and publishing in the area of Object Oriented Analysis and Design. After graduating from the NUS School of Computing with a BSc (Honours) degree in Information Technology, she continued on as research assistant at the NUS, earning a MSc in Computer Science by research. She also holds the Project Management Professional (PMP) and the Certified Information System Auditor (CISA) professional accreditation.





**Professor Susanto Rahardja,  
Deputy Executive Director (Research)  
Institute for Infocomm Research, A\*STAR**

Professor Susanto Rahardja was born in Jakarta, Indonesia. He received the B.Eng. degree from the National University of Singapore in 1991, and the M.Eng. and Ph.D. degrees from the Nanyang Technological University in 1993 and 1997 respectively, all in Electrical Engineering. His research interests include multimedia signal processing and interactive digital media in which he has published more than 250 publications in internationally refereed journals and conferences. He joined the Centre for Signal Processing at Nanyang Technological University as a research engineer in 1996 and was later appointed as Assistant Director of the Centre in 2001. He was the Director of Media Division at the Institute for Infocomm Research (I<sup>2</sup>R) from 2002 to 2007, where he led 150 full-time researchers in a broad range of media related research that cover areas in Signal Processing (audio coding, video/image processing), Media Analysis (text/speech, image, video), Media Security (biometrics, computer vision and surveillance) and Sensor Networks. At I<sup>2</sup>R, he is currently the Deputy Executive Director (Research) where he oversees all the research activities there and Head of Signal Processing Department as well as a Principal Scientist.

Professor Rahardja was the recipient of the IEE Hartree Premium Award for the best journal paper published in IEE Proceedings in 2002. From 2002 --- 2007, he actively participated in the international ISO/IEC JTC1/SC29/WG11 (Moving Picture Expert Group, or MPEG) where he contributed to the development of MPEG---4 Scalable to Lossless System (SLS) in which the technology was adopted as Reference Model 0 by MPEG in July 2003. In 2003, he received the Tan Kah Kee Young Inventors' Gold award in the Open Category for his contributions to scalable to lossless audio compression technology. This technology was subsequently published as a normative international standard in June 2006 (ISO/IEC 14496---3:2005/Amd.3:2006). He also led the team to develop an adaptive predictor technology for the audio lossless codec which was incorporated in the MPEG---4 Audio Lossless System (ALS) under the high performance profile (ISO/IEC 14496---3:2005/Amd.2:2006). In recognition of his significant contributions to the national standardization program, Dr Rahardja was awarded the Standards Council Merit Award by SPRING Singapore in 2006. In addition, for leadership and technical contribution to advancement of digital audio signal processing and its adoption to the MPEG, he was awarded the National Technology Award in 2007. He also received the A\*STAR Most Inspiring Mentor Award in 2008, I<sup>2</sup>R Achiever of the Year Award (Research) in 2007, I<sup>2</sup>R Achiever of the Year Award (Development) in 2009, I<sup>2</sup>R Achiever of the Year Award (Research) in 2010, and was a Finalist of the 2010 World Technology & Summit Award, as well as other awards.

Dr Rahardja has served in several boards, advisory and technical committees in various ACM, IEEE and SPIE related professional activities in the areas of multimedia. He is one of the elected members of the Technical Committee of the Visual Signal Processing and Communications, Circuits and Systems for Communications and Multimedia Systems and Applications of the IEEE Circuits & Systems Society. He was the Associate Editors for IEEE Transactions on Audio, Speech and Language Processing from 2007 --- 2011. Currently, he is serving as the Associate Editors for the Elsevier Journal of Visual Communication and Image Representation and IEEE Transactions on Multimedia. He served as the Conference Chair of Multimedia Systems and Applications at SPIE OpticsEast Symposium from 2006 to 2007 as well as Symposium Co---chair of the IEEE International Symposium on Multiple---Valued logic in 2006. He was also the Industry and Government Advisor of 1st ACM SIGGRAPHASIA 2008, the General Chair of 7th ACM SIGGRAPH VRCAI 2008 and General Chair of Asia---Pacific Signal and Information Processing Association (APSIPA) Annual Summit and Conference 2010. Since 2004, he is the Council member of National IT Standards Committee in Singapore. In 2005, he chaired a thematic strategic research program at A\*STAR in the "mobile media" theme where more than US\$5 millions projects were awarded. He served as a panel member for Science & Technology Plan 2015 and Science & Technology Value Creation 2015 for A\*STAR. He is currently the President of SIGGRAPH Singapore Chapter (SSC) and Southeast Asia Graphics (SEAGRAPH) society, Board of Governor of Asia---Pacific Signal and Information Processing Association (APSIPA), Member of the Management Board of Interactive Digital Media Institute at the National University of Singapore and Scientific Advisor of Faculty of Computer Science, Prince of Songkla University in Thailand. Dr. Rahardja holds an adjunct appointment of Full Professor at the National University of Singapore. He is a Fellow of the Institute of Electrical and Electronics Engineers (IEEE).