

# Danny Shu Ming, KOH

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20<sup>th</sup> May 1983



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## Area of Interests

I aspire to be in the forefront of learning science domain to seek solutions in accelerated learning through technologies and empirically sounded learning principles.

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## EDUCATION

**Nanyang Technological University, Singapore** **Jul 2004 – Jun 2008**

- Bachelor of Engineering, Major in Mechanical Engineering (Design Specialisation)
- Graduated with 2<sup>nd</sup> Upper Class Honours
- Minor in Business

**Carnegie Mellon University, Pittsburgh / United States** **Aug 2013 – Present**

- Masters in Educational Technologies and Applied Learning Science / Human-Computer Interaction Institute
- Expected Date of Graduation: August 2014

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## WORK EXPERIENCE

**Defence Medical and Environmental Research Institute,** **Oct 2008– Jul 2013**

**DSO National Laboratories, Singapore**

**Research Engineer, Human Factors**

Defence Medical and Environmental Research Institute is part of DSO National Laboratories, Singapore. It is the premier research & development outfit spearheading human science research in Ministry of Defence, Singapore. Previous and current work include:

- Understanding of decision making in complex systems
  - Modelling work flow processes of system administrators using contextual inquiry technique
  - Conducting naturalistic study of Internet users to construct user mental models and predict human performance and behaviour using quantitative data
- Knowledge assessment and transfer
  - Elicitation of tacit knowledge and Knowledge, Skills and Abilities (KSA) from Subject Matter Experts of specific domain using Cognitive Task Analysis techniques
  - Development of computerised Scenario-Based Training tool to impart tacit knowledge to novices
  - Development of a web-based proficiency test for assessing user skills and competency

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## AWARDS AND ACHIEVEMENTS

**DSO National Laboratories Project Team - Group Performance Award** **2012**

**DSO National Laboratories Production Team - Group Performance Award** **2011**

**Nanyang Technological University Engineering Innovation Design** **2006**

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**LANGUAGES (WRITTEN AND SPOKEN)**

- English, Mandarin
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**TECHNICAL SKILLS**

- Conversant in Cognitive Task Analysis techniques such as Critical Decision Method, Elicitation by Critiquing and Think Aloud
  - Conversant in Cognitive Tutoring Authoring Tool (CTAT) for developing personalised online tutor
  - Conversant in usability research and training presentation software: MORAE and Camtasia Studio
  - Conversant in statistical packages: SPSS and JMP
  - Familiar with Machine Learning software: Waikato Environment for Knowledge Analysis (WEKA)
  - Conversant in image editing software: Adobe Photoshop
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**PROFESSIONAL MEMBERSHIP**

- Association for Computing Machinery (ACM) Professional and Special Interest Group on Computer-Human Interaction (SIGCHI) Membership Jun 2010 - Present
  - Society for Judgment and Decision Making (SJDJ) Membership Nov 2011 - Present
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**INTERESTS**

- Jogging, Working out in gym, Playing musical instruments, Travelling.
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