

# Nguyen Trung Tuan

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## Objective

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I am researching on computer-based simulation of medical procedure in a robotics laboratory. I am seeking for opportunities to become an expert in computer graphics field, for my passion on art, technology and application. I hope to expand my knowledge on simulation of physically deformable objects.

## Education

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**Master of engineering, Korea Advanced Institute of Science and Technology** Feb. 2012 to now

Thesis Model of Cutting and Deformation by Electrical Instruments for ERCP (Endoscopic Retrograde Cholangiopancreatography) Simulation  
Supervisor Professor Doo Yong Lee  
GPA 3.86 / 4.3

**Bachelor of Engineering, Hanoi University of Science and Technology** 2005 to 2010

GPA 8.47 / 10 (Gifted Engineer with Honors)

## Conference presentations

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**Tuan Nguyen Trung**, Myeongjin Kim, and Doo Yong Lee. (2013). A Hybrid Contact Model for Cannulation Simulation of ERCP, *Medical Meets Virtual Reality 21*(Submitted)

**Tuan Nguyen Trung**, Hoeryong Jung, Myeongjin Kim, and Doo Yong Lee. (2013). A Method for Generating Cut Surface in Surgery Simulation, *International Conference on Control, Automation and Systems*

**Tuan Nguyen Trung** and Doo Yong Lee. (2012). Construction of Centerline-based Models of Stomach and Duodenum from MAYA Virtual Models, *Annual Conference of Korea Society of Mechanical Engineering*.

## Experiences

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**Robotics and Simulation Lab, Korea Advanced Institute of Science and Technology** Feb. 2012 to now

ERCP project: Research on simulator of ERCP medical procedure

**Offshore developer, Sony Digital Network Application Inc.** 2010 to Feb. 2012

Upload controller project: Application for uploading movies and photos to social networks.

Image data converter project: Application for managing and converting raw images.

360 viewer project: Rendering donut movies into 3D movies using OpenGL.

## Skills

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Knowledge: Simulation of deformable objects, contact and cutting.  
Programming: C++, MFC, OpenGL, objective-C, X-code, Matlab, Maple, parallel computing.  
Modeling: Autodesk MAYA, Auto CAD, Solid Work

## Honors and Awards

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<i>Scholarship for excellent student</i> , Hanoi University of Science and Technology, Vietnam	2010
<i>Oto Jase Scholarship</i> , Korea-Vietnam Foundation	2010
<i>Oto Jase Scholarship</i> , Korea-Vietnam Foundation	2009
Silver medal of <i>Fundamental Machine Design</i> , Student Olympic, Hanoi University of Science and Technology, Vietnam	2009
Consolation prize of <i>Fundamental Machine Design</i> , National Mechanical Olympic, Vietnam	2009
Consolation prize of <i>Science of Material</i> , National Mechanical Olympic, Vietnam	2008
<i>Silver medal of Physics</i> , National Contest of excellent high school students, Vietnam	2005
<i>Scholarship for gifted students</i> , Hanoi University of Science and Technology, Vietnam	2005-2010

## References

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### Doo Yong Lee, Professor

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### Nguyen Van Khang, Professor

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## Additional information

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Nationality: Vietnamese

Date of birth: July 10, 1987

Marital status: Single

Gender: Male