

# LAHANAS VASILEIOS

## Physicist, MSc in Mechatronics

Date of Birth : 30 August 1983  
Home Address : 16 Karapanagiotou, 11476, Athens, Greece  
Phone Number : (mobile) +30 697791908  
e-mail : [vlahanas@med.uoa.gr](mailto:vlahanas@med.uoa.gr) / [vasileios.lahanas@hotmail.com](mailto:vasileios.lahanas@hotmail.com)

### EDUCATION

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- 2010-2014 :** Ph.D. Candidate in Medical Simulation, Athens Medical School, National and Kapodistrian University of Athens.
- 2007-2008 :** M.Sc. Mechatronics in Department of Mechanical Engineering, King's College London.
- 2002-2007 :** B.Sc. in Physics, Physics Department, National and Kapodistrian University of Athens.

### EMPLOYMENT

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- 2010-2014 :** Software developer & research assistant, Medical Physics Laboratory, Athens Medical School, **National and Kapodistrian University of Athens**.
- 2008-2009 :** Technical Studentship on the design & development of automated benchmarking software for the evaluation of back-end electronic units, **CERN** (European Organization of Nuclear Research – Geneva, Switzerland).

### THESES

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- “Mapping an unknown environment for mobile robot navigation”, M.Sc. thesis, Department of Mechanical Engineering, King's College London, 2008.
- “Real – time Spectroscopy of Radioactive Source using a Microprocessor”, B.Sc. thesis, Physics Department, National and Kapodistrian University of Athens, 2007.

## FOREIGN LANGUAGES

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- English (Lower, TOEFL).

## COMPUTER SKILLS

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- **Programming** : C/C++, Java, C#, Visual Basic, .NET, MATLAB, LabVIEW, Pearl, PHP, JavaScript, HTML(+CSS), XML
- **Databases** : SQL, MSAccess, SQLite
- **Software** : Microsoft Visual Studio, Eclipse , LabVIEW, MATLAB
- **Other** : Wordpress, Joomla!, Microsoft Office, Apache Server
- **CAD/3D/2D Design Software** : Pro/Engineer, Blender, 3D Studio Max, GIMP
- **OS** : Microsoft Windows, Linux, Android

## FIELDS OF INTEREST

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- Virtual/Augmented Reality
- Physics Based Modeling
- Computer Graphics
- Desktop & Mobile Application Development
- Scientific Programming
- Image Processing

## SCIENTIFIC PUBLICATIONS

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1. **V. Lahanas**, C. Loukas, N. Smailis, E. Georgiou, "*A novel Augmented Reality simulator for skills assessment in minimal invasive surgery*", Surgical Endoscopy, **2014**
2. C. Loukas, **V. Lahanas**, E. Georgiou, "*An integrated approach to endoscopic instrument tracking for augmented reality applications in surgical simulation training*", The International Journal of Medical Robotics and Computer Assisted surgery, **2013**
3. C. Loukas, N. Nikiteas, D. Schizas, **V. Lahanas**, E. Georgiou, "*A head to head comparison between virtual reality and physical reality simulation training for basic skills acquisition*", Surgical Endoscopy, **2012**
4. **V. Lahanas**, C. Loukas, N. Nikiteas, D. Dimitroulis, E. Georgiou, "*Psychomotor skills assessment in laparoscopic surgery using augmented reality scenarios*", Disital Signal Processing International Conference, **2011**