

ALEXANDROS SIGARAS

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3333 Broadway, Apt. E13J, New York, NY 10031

EDUCATION

COLUMBIA UNIVERSITY, FU FOUNDATION SCHOOL OF ENGINEERING

MS Computer Science, Thesis Research Track | GPA: 3.851/4.00

- **Courses:** Humanoid Robotics, A.I, User Interface Design, Programming Languages & Translators, Launching New Ventures (MBA), Analysis of Algorithms, O.O.P and Design in JAVA
- **Thesis:** "Surgical Structured Light for 3D Minimally Invasive Surgical Imaging"

NEW YORK, NY

9/2012 – 12/2013

UNIVERSITY OF PIRAEUS

BS Informatics, Information Systems Track | GPA: 8.5/10.0, Summa Cum Laude, Rank: 1st in track

- **Courses:** Algorithms, A.I, Computer Graphics, Adv. Databases, Data Mining, G.I.S, Inf. Systems Security.
- **Thesis:** "Self Adaptive Robotic Warehouse Management Systems with event and location based triggers"

PIRAEUS, GREECE

10/2005 – 10/2011

PUBLICATIONS

- Austin Reiter, Alexandros Sigaras, Dennis Fowler and Peter K. Allen, Surgical Structured Light for 3D Minimally Invasive Surgical Imaging, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)
- Beltran Himisha, Sigaras Alexandros, Elemento Olivier, Rubin Mark et. al. Precision Medicine Program for Whole Exome Sequencing Reveals Biomarkers of Response, the New England Journal of Medicine

CHICAGO, IL

9/2014

Under Review

EXPERIENCE

WEILL CORNELL MEDICAL COLLEGE – NEW YORK PRESBYTERIAN HOSPITAL

Programmer Analyst – Institute for Precision Medicine, Institute for Computational Biomedicine

Software Development Lead for all clinical and R&D activities of the institution of Precision Medicine.

Key Responsibilities: Development of next-gen sequencing pipelines, LIS, cancer genomic portals and integrating genomic data to New York Presbyterian's HL7 infrastructure.

NEW YORK, NY

3/2014 – Present

COLUMBIA UNIVERSITY

Researcher – Robotics Laboratory, Prof. Peter Allen

- **Project 1:** Developed prototype on Surgical Structured Light for 3D minimally invasive surgical imaging.
- **Project 2:** Developed brain computer interfaces for robotic grasping for people with locked-in syndrome.

Teaching Assistant – Computational Aspects of Robotics (COMS W4733), Prof. Peter Allen

- Taught classes, graded student's homework and held recitations to enforce concepts covered in class.

NEW YORK, NY

9/2012 – 3/2014

9/2013 – 12/2013

MICROSOFT

Internal Sales Education Specialist

- Worked closely with universities and K-12 schools in Greece to provide cloud solutions and generally fulfill education institution needs in IT. Recipient of the Language Champion Award for the contribution to the Windows 8 International Review Program.

ATHENS, GREECE

12/2011 – 7/2012

Microsoft Student Partner

- Presented a robotics warehouse project to the **Chairman of Microsoft, Bill Gates** - Microsoft Innovation Center, Greece
- IEEE Invited Talk: "Introduction to Robotics with MS Robotics Studio and LEGO Mindstorms NXT" Conference & Cultural Center, University of Patras, Greece.
- Imagine Cup 2011 Software Design and IT Challenge Trainer, Microsoft Innovation Center, Greece.
- Co-Founder & Global Moderator of www.studentguru.gr, student community (15.000+ members) with online and offline presentations and trainings on computer technologies.

11/2006 – 12/2011

ACHIEVEMENTS

- **Fulbright Foundation Scholarship**
- Triantafyllu Grant
- **Semi-Finalist** in Imagine Cup IT Challenge
- **2nd place** in Athens Startup Weekend 2, Honorary Scholarship from Hellenic American University

2012

2012

2008 & 2011

2009

TECHNICAL SKILLS

OS **Client & Server:** Windows, OS X, Linux **Application Platforms:** Exchange, SharePoint, Lync, Office 365
Languages Ruby, C#, C/ C++ (OpenGL, OpenCV), JAVA, Python, LISP, VPL, Assembly (MIPS)
Web Ruby on Rails, HTML, JavaScript, CSS, XML, Silverlight, ASP.NET
Mobile Dev. Android, Windows Phone
Tools Visual Studio, Eclipse, Microsoft Robotics Studio, Matlab
Databases SQL Server, MySQL, Oracle (SQL, PL/SQL)

CERTIFICATIONS

- MCP, MCTS - 70-680 & 70-620: Configuring Microsoft Windows 7 & Vista Client

CONFERENCES – SEMINARS – EXHIBITIONS

- IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), Chicago, IL
- Economic and Social Council Youth Forum, United Nations, New York, NY
- Northeast Robotics Colloquium MIT, Cambridge, MA,
- Stanford University – Online Course "Introduction to Artificial Intelligence" (top 10%)
- Microsoft TechEd Developer Europe, Barcelona, Spain
- Microsoft Remix, Budapest, Hungary

9/2014

5/2013

10/2012

10/2011 - 12/2011

11/2008

6/2007

MEMBERSHIPS

- IEEE (Computer Society, Robotics and Automation Society) | ACM (SIGART)

Since 2006 | 2008

FOREIGN LANGUAGES

- Greek – Native; English – Proficient (Cambridge Advanced & TOEFL); French – Elementary (A1)