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# Michał Januszewski

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## Skills

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- **Programming languages:** C, C++, C#, Python, OpenCL, PHP, Perl, Java, JavaScript, shell scripting, AWK, x86 assembly, XSLT
- **Content-description languages:** XML, XHTML, CSS, LaTeX, PostScript
- **Operating systems and platforms:** Linux, Windows, x86, x86-64
- **Languages:** Polish (native), English (fluent), German (basic)
- **Miscellaneous:**
  - Linux kernel programming
  - parallel programming on GPU (CUDA, OpenCL)
  - network, web and database technologies
  - low-level programming and code optimization
  - computer simulations, data visualization and scientific computing
  - familiarity with automated software testing techniques

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## Experience

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**Gentoo Foundation** <http://www.gentoo.org/> *Jan 2004 – present*

*Gentoo Linux Developer*, voluntary work

- Work in the Gentoo kernel and science teams, responsible for framebuffer and CUDA/OpenCL issues and applications.
- Developed a framebuffer driver ([uvesafb](#), currently in mainline Linux kernel) and graphical console enhancement programs ([fb splash](#), standalone Open Source project).

**Google Inc.** <http://www.google.com/> *Jul 2009 – Sep 2009*

*YouTube Software Engineer Intern*, internship

- Worked on the YouTube Content Management system.
- Used Python, MySQL, JavaScript and Bash.

**CitySpace Investment** <http://cityspace.pl/> *Nov 2008 – Mar 2009*

*Software Developer*, independent contractor

- Developed a CRM system using C# and MySQL.
- Developed a web application for customers.

**Google Switzerland GmbH** <http://www.google.com/> *Jul 2008 – Sep 2008*

*Software Engineer Intern*, internship

- Worked on a YouTube monetization project.
- Received two Peer Bonus awards for my work during the internship.
- Used Python, C++, MySQL and various internal core Google technologies.

**Google Switzerland GmbH** <http://www.google.com/> *Aug 2007 – Oct 2007*

*Software Engineer Intern*, internship

- Worked in the geo team on issues related to search quality and maps infrastructure.
- Used Python, C++, JavaScript, MySQL and various internal Google technologies.

**Asar GmbH** <http://www.asar.de/> *Jan 2005 – Dec 2006*

*Software Developer*, independent contractor

- Developed a Linux-based recovery LiveDVD with accompanying applications.
- Ported the *gensplash* software to Debian Linux.

**Optymalne Media** *Jan 2002 – Dec 2006*

*Software Developer*, independent contractor

- Developed a CRM system based on Open Source technologies (Linux, MySQL, PHP).
- Developed a web application for a survey of dietary habits and a distribution system for a magazine.

## Education

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**University of Silesia** *Oct 2008 – now*  
**Dept. of Mathematics, Physics and Chemistry**, Katowice, Poland  
*Theoretical Physics student, Master's programme*

**University of Silesia** *Oct 2005 – Jun 2008*  
**Dept. of Mathematics, Physics and Chemistry**, Katowice, Poland  
*Individual Science Studies: Computer Science and Physics student*

- Obtained a BSc degree in Computer Science (summa cum laude). Thesis title: "Distributed and High Performance Computing with Open Source software".

**8th High School**, Katowice, Poland *Sep 2002 – Jun 2005*  
*Student in a class with extended curriculum in Mathematics and Physics*

- Participated in university-level workshops in Physics, Mathematics and Computer Science.
- Participated in [European Space Camp 2005](#) and was Main Telemetry Group Leader during the rocket campaign.

## Achievements

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- Ministry of Science Scholarship for Academic Achievements (2006/2007, 2007/2008, 2008/2009)
- Scholarship of the Prime Minister of Poland (2004/2005).
- Participant of the Polish Children's Fund programme for gifted students; scholarship holder status (2004/2005).

## Activities

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- Organized a national conference of Physics students ([2006](#), [2007](#), [2008](#), [2009](#)) and a Physics competition for high school students (2006).
- President of the [University of Silesia Society of Physics Students](#) (2006/2007).
- Participated in the International Astronomical Youth Camp (2006).

## Publications

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- Januszewski M., Kostur M. [Accelerating numerical solution of Stochastic Differential Equations with CUDA](#). *Computer Physics Communications*, DOI: 10.1016/j.cpc.2009.09.009 (2009)
- Januszewski M., Trommer F. Stellar structure modelling in the framework of General Relativity. *IAYC'2006 Report Book*. (2006)

## Talks

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- The Lattice Boltzmann Method in fluid simulations. *8th National Conference of Physics Students "Piknik Naukowy 2009"*, Brenna, PL. Apr 2009.
- CUDA for numerical computing. *7th National Conference of Physics Students Societies*, Warsaw, PL. Nov 2008.
- Distributed computing using commodity hardware. *7th National Conference of Physics Students "Piknik Naukowy 2008"*, Brenna, PL. Apr 2008.
- Absolute Negative Mobility in noisy dynamical systems. *6th National Conference of Physics Students Societies*, Lublin, PL. Nov 2007.
- Smoothed Particle Hydrodynamics in fluid simulations. *6th National Conference of Physics Students "Piknik Naukowy 2007"*, Cieszyn, PL. Apr 2007.
- Modeling the structure of compact astrophysical objects. *5th National Conference of Physics Students Societies*, Wrocław, PL. Nov 2006.
- Simple computer simulations in General Relativity. *5th National Conference of Physics Students "Piknik Naukowy 2006"*, Cieszyn, PL. Apr 2006.