

Prashant Vaibhav

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Education

02/2011 to date 09/2005 - 05/2008	Jacobs University Bremen , Bremen, Germany Pursuing Bachelor of Science in Electrical Engineering and Computer Science. Expected graduation in December 2011.
03/2000 - 05/2004	Don Bosco Academy , Patna, India Secondary education, specializing in Science with Computer Studies. Graduated in top 10% of class, awarded Indian School Certificate.

Work Experience

03/2010 - 02/2011	Five Pumpkins (based in New York, USA) Developer of educational software for children. Responsibilities include implementing Java-based software for Google Android mobile platform, with minor role in user interface design.
09/2007 - 02/2008	Algorithmica Technologies , Bremen, Germany Part-time job in the area of graphics programming. Developed a graphical user interface for three-dimensional visualization for a fluid simulation package using C++ and OpenGL.
06/2007 - 08/2007	IPEM, University of Ghent , Belgium Internship in the area of motion sensing. Worked as student researcher for "Hop 2" motion-controlled collaborative audio system. Implemented sensor interfaces for Xsens, Nintendo Wii and custom Hop-Sensors. Devised signal processing algorithms for motion data filtering, BPM detection, movement correlation, time and pitch scaling.
10/2005 - 05/2007	Behavioral Sciences Lab, Jacobs University Bremen , Germany Student job in the area of eye-tracking. Developed cognitive psychology experiments centered around hardware eye motion tracker and high performance graphics platforms.

Research and Project Experience

01/2009 to date	Wireless networking drivers for Mac OS X (Independent project and Bachelor thesis) Design and implementation of native OS X drivers for Intel's range of IEEE 802.11 wireless networking products. Created framework for native integration of wireless drivers within OS X. Working on porting BSD net80211 stack to OS X.
05/2011 - 08/2011	QEMU processor emulator Google Summer of Code student. Working to implement Intel Itanium platform emulation.
05/2009 - 08/2009	The FreeBSD Foundation Google Summer of Code student. Improved the callout subsystem on the FreeBSD kernel for better performance and in preparation for tick-less timer support.
08/2008 - 01/2009	Mac OS X kernel improvements (Independent project) Worked with and managed a voluntary team of programmers to improve Mac OS X's kernel to support a wide variety of Intel and AMD processors. Co-designed and developed a native SSE3 instruction emulator and CPU power management drivers.
01/2007 - 01/2007	Web development (BlueArena Ltd., United Kingdom) Responsible for improving the custom content-management system, implementing a collaborative development environment and search engine optimization.

Skills and Achievements

Programming:	Kernel and device driver programming (Mac OS X, FreeBSD), C/C++, x86 and ia64 assembly, MATLAB, realtime systems in PureData, music and audio technology
Workshops / Conferences:	<i>Workshop in Parallel Programming</i> , Bremen (2007), conducted by Zuse Institute Berlin. <i>International Summer School in Systematic Musicology</i> (2007), IPEM, University of Ghent, Belgium, as Technical contact for motion-sensing.
Awards:	StartUp Chile 2012 - Part of 3-member team selected for USD 40k startup funding in Chile. 2nd rank world-wide - Computer Science (Academic Aptitude & Achievement Test, 2003). 1st rank in high school - Computer Science, 2nd rank in high school - Physics (Indian School Certificate Examination, 2004). Top 10% in India - National Info-Tech Aptitude Test, 2004 (National Institute of Information Technology, Delhi). Won highest-level scholarship.