

Personal information

Name	Štěpán Hrbek
Address	K haltýři 11, Praha 8, 181 00, Czech Republic
Telephone	(420) 732 674 273
E-mail	dee@dee.cz
Nationality	Czech
Date of birth	18.2.1975

Work experience

Dates	2003 - now
Name and address of employer	Illusion Softworks, www.illusionsoftworks.com
Occupation or position held	engine programmer
Main activities and responsibilities	next generation engine architecture, rendering pipeline, lighting and shadowing, effects, visibility, intersections, multi-cpu architecture (VC++, DX9, Subversion, Linux)
Dates	2002 - 2003
Name and address of employer	INCOME s.r.o., www.income.cz
Occupation or position held	main programmer of Income Home Bus project
Main activities and responsibilities	design and implementation of sw for “internet house” (included programming of 5 boards, 2 CPUs, 2 displays, GUI, communication between displays, PC and devices on IIC and 485 buses, touchscreen, buttons, remote, voice) (ICC, gcc, AVR, x86, IIC, 485)
Dates	2001 - 2002
Name and address of employer	Czech Agronomical University, www.tf.czu.cz
Occupation or position held	sysadmin + programming teacher (substitute for military draft!)
Dates	1994 - now
Occupation or position held	freelance programmer
Main activities and responsibilities	since 2004 - my Realtime Radiosity engine running in movie postproduct. company since 2000 - my 256B intros on top positions in world charts (http://dee.cz/3d) since 1999 - my voting system based on image analysis used intensively since 1994 - my engine Deus ex Machina sold millions magazines (dee.cz/machina) around 1994 - my program for teaching maths (Babymat) in distribution

Education and training

Dates	1995 - 2001
Name and type of organization	Charles University , Faculty of Mathematics and Physics, Prague, Czech Republic
Title of qualification awarded	MS in Computer Science
Level	MS thesis and final state exam: 1 (1 is the highest level)
Principal subjects	programming (C++, Asm, Java, Prolog, Lisp, Haskell, bash, awk, CORBA, TeX, SQL) computer graphics science (2D, 3D, compression) mathematics (analysis, logic, set theory) artificial intelligence, neural networks

Personal skills

Mother tongue	Czech
Other languages	English
Reading skills	Excellent
Writing skills	Good
Verbal skills	Good

Technical skills	skill	years of use	last used	self rating 1-10
Programming languages	C/C++	8	now	9
	x86 architecture, Asm	8	2003	9
	AVR ATmega architecture	1	2003	7
	Z80 Asm	4	1994	5
	MC68000 Asm	1	1995	3
	Java, J2ME, MIDlets	1	2003	5
	Pascal	10	2002	9
	Basic	5	2001	5
	SQL, MySQL	2	2004	3
	Prolog, Lisp, Haskel	1	2000	3
	HTML, DHTML, DOM, Javascript	5	2003	6
	XML, XSLT	1	2001	5
Programming environments	Visual Studio, Source Safe	3	now	7
	GNU gcc, make	8	now	8
	Subversion, Bugzilla, Doxygene	1	now	6
	SunONE	1	2003	5
Operating Systems	GNU/Linux	6	now	8
	Windows	8	now	8
	DOS	10	2003	10
	Novell Netware	7	2002	3
Computer graphics sciences	2D/3D algorithms	15	now	8
	data structures, BSP, KD..	5	now	9
	shadowing techniques, radiosity	5	now	9
	digital reconstruction of movies	1	2003	6
	DirectX, shaders	2	now	7
	OpenGL	5	now	7
	VGA, VESA BIOS	7	2002	10
Other computer sciences	artificial intelligence	5	2000	6
	genetic algorithms	1	2003	6
	neural networks	2	2001	3
Embedded environments	size optimizations	9	2003	10
	oscilloscope cowboying	1	2003	6
Networking	security	4	now	7
	multiplayer design	2	2004	6
	DirectPlay	2	2004	6
	TCP/IP	3	2004	5
	IIC, 485	1	2003	7
Social skills and competences	- Team work: I lead development of IHB (Income s.r.o.) planning work for 2 other programmers. Till 2002 I worked on tens of Broncs and Downtown software projects as team member or leader (some projects successful /based on pouet.net popularity rating/ in world context).			
Organisational skills and competences	- 7x co-organized international demoparty (1-3day event for 50-200ppl and their computers, held in Praha, Uherské Hradiště, Rožnov pod Radhoštěm, Chotěboř) - 6x organized yearly computer go-moku tournament (held in Praha, Nitra) - founded Broncs and Downtown demogroups (4-7 members working on sw projects)			
Driving license	none (minimizing Ecological Footprint)			

Additional information

Membership	Mensa (IQ 168)
Technology www	http://dee.cz/3d