

Gene S. Greger

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Education	Rensselaer Polytechnic Institute , Troy, NY	May 1991
	Bachelor of Computer Science Concentrations in Computer Graphics and Electronic Art	
	Cornell University, Program of Computer Graphics , Ithaca, NY	August 1996
	M.S. Architectural Science (Computer Graphics) Minor in Historic Planning and Preservation	
Experience	UNIX Systems Admin. NYS Office of Children and Family Services December 2000 - October 2007 Albany, NY	
	Part of a three-person team responsible for maintaining a group of HP and Linux development and production servers for several New York State statewide applications. Responsibilities include system backup and recovery, disk and printer management, user training, account setup, script writing, system analysis, planning, and troubleshooting, and Level III technical support. Participant in rotating on-call shifts. In charge of writing Perl scripts for the team to automate and simplify much of our administrative workload. Script examples include generating disk and device layout charts, monitoring system resources, software and server startup and shutdown scripts, user account creation and password administration, generating Excel spreadsheets for management reports, and monitoring scripts for OpenView and Tivoli.	
	Graphics Programmer RayTech Systems January 2000 - June 2000 Latham, NY	(contract position)
	Wrote and co-designed a networked out-of-core particle tracer for visualizing large NASA datasets. Implemented client software to compute and interactively display the simulation data, and server software to respond to client requests for data. Compiled performance statistics and generated and ran benchmarking tests. The work was performed on a UNIX (SGI) workstation and written in C++; OpenGL was used to display the data, and the user interface was written using Tcl/Tk and GLUT to make the project portable to the Windows platform.	
Graphics Programmer STEP Tools Inc. October 1996 - December 1999 Troy, NY		
Designed and implemented a graphics API in C++ to access and display product data, used internally and by the company's web-based data management product. Responsibilities included maintenance of current release and the planning and development of future releases, providing internal and external technical support, producing documentation, and source code control.		
Research Assistant Cornell University Spring 1994 - Spring 1996 Cornell Program of Computer Graphics		
Designed and implemented a system to volumetrically represent light flow within an environment. Modeled 3D environments to test global illumination algorithms. Wrote interactive walk-through program to navigate rendered architectural scenes. Acquired and created textures for use in texture-mapped environments. Wrote software for conversion between 3D model formats.		
Teaching Assistant Cornell University Fall 1993 Cornell Program of Computer Graphics		
Provided technical and educational support for architecture students working in the Program of Computer Graphics: customized UNIX accounts, wrote utilities and tutorials, ran and recorded animations onto videotape. Archived and retrieved data from storage media.		

Programmer

Rensselaer Polytechnic Institute
Rensselaer Design Research Center

May 1991 - May 1993

Maintained and supported the Center's in-house modeling and rendering software: added features, fixed bugs, wrote utilities, ported code, maintained documentation, created models for publication, rendered images, implemented volume reconstruction and texture-mapping algorithms.

Computer Skills

- Operating Systems: HP-UX, Solaris, AIX, IRIX, MacOS X, Linux, Windows
- Languages: C, C++, Perl, Tcl
- Visualization and Graphical API's: GL, OpenGL, VTK, OpenInventor, Motif, Tk
- familiar with many ray-tracing, radiosity, and other illumination and rendering algorithms
- Misc.: Photoshop, HTML, Final Cut Pro

Certifications

Apple Certified Help Desk Specialist (ACHDS)
Red Cross CPR / AED training

Publications

J. Tourtellott, G. Greger, Internet-based out-of-core flow visualization, in *Visual Data Exploration and Analysis VIII*, Robert F. Erbacher, Philip C. Chen, Jonathan C. Roberts, Craig M. Wittenbrink, Matti Gröhn, Editors, Proceedings of SPIE Vol. 4302 (2001), pp. 23-34.

Greger, Shirley, Hubbard, Greenberg, The Irradiance Volume, *IEEE Computer Graphics and Applications*, March / April 1998.

Computer Graphics Exhibitions

Image selected for SIGGRAPH 2006 Art Gallery.
Image selected for SIGGRAPH 2006 Teapot Exhibit.
Animated short selected for SIGGRAPH 2005 Electronic Theatre Flying Logo Competition.
Image selected for SIGGRAPH 2004 Art Gallery.
Image selected for SIGGRAPH 2003 Art Gallery.
Image selected for SIGGRAPH 1992 technical slide show.
Image selected for Eurographics 1992 fine art show.

Volunteer Work

SIGGRAPH Student Volunteer, 1989 and 1990.
SIGKids Volunteer, 1994.