

Professional Experience

Programmer, Jostens (2008 – August 2011)

Research and implemented graphics, image processing and 3D rendering for web applications.

Algorithms: histogram equalization, hough transform, convolution, corner detection, morphological operations, vector image dialation/erosion, blob-segmentation, Gouraud and Phong Shading.

Skills/Tools:

- Adobe FlexBuilder, Photoshop, Dreamweaver, PixelBender, Alchemy
- Microsoft Visual Studio C#/C++, VB.NET, ASP.NET, MVC, SOAP, Access, Oracle 10g.
- Mathematica, Swift3D, Papervision, MeshLab, OpenGL
- Subversion Repository, Subclipse, TortoiseSVN

Awards / Recognition:

- 2010 Leader award for Year Book Avenue project.
- 2008 Leader award for Ring Designer project.
- 2008 Legend award.

Developer, Carol.com (2008)

Developed for company website.

Skills/Tools:

- Eclipse, IntelliJ – Java, Groovy, Adobe Flex, MySQL, DBVisualizer, Daisy Content Manager

Programmer, CGIS, Towson University (2007)

Developed websites, desktop and database-applications.

Skills/Tools:

- Microsoft Visual C++, C#.NET, VB.NET, ASP 2005, HTML, JavaScript
- Microsoft Access, SQL Server, Oracle 9i, 10g database, SQL Plus, SQL Developer, SQL Loader
- ESRI geographic products, ArcMap, ArcCatalog
- SharpMap, Tatuk mapping libraries

Senior Software Engineer, Corel Inc (2006)

Developed and debugged image processing features for PaintShop Pro Photo and Snapfire.

Skills/Tools:

- Microsoft Visual C++, C# 2003, Mathematica, algorithm design and validation.
- ClearQuest bug report management.

(2003 – 2005) Career Detour after a lay-off from post 9-11. Employed in non technology positions.

System Consultant, Syscom Inc (2001 – 2002)

Developed console and service applications for internal use. Test, trouble shoot web applications.

Skills/Tools: Microsoft Visual C++ 6.0/ASP.NET, IBM Content Manager

Principal Firmware Engineer, Central Issuance Group, Datacard Group (2000 – 2001)

Firmware Engineer, Central Issuance Group, Datacard Group (1998 – 2000)

Imaging Engineer, Card Personalization Group, Datacard Group (1994 – 1996)

Developed desktop software and firmware for printer products. Primarily responsible for imaging workflow, image processing and color management. Researched and developed color space

mapping techniques such as Neural network, Rectilinear interpolation, Sequential linear interpolation. Developed image enhancement such as noise reduction, contrast correction, luminance sharpening, chroma-key and color separation. Test and integrate video camera in product capture solution.

Skills/Tools:

- GCC on FreeBSD OS for VxWorks Tornado, Microsoft Visual C++ 6.0, Metrowerks C++ (Mac)
- Adobe Photoshop, Illustrator, Harlequin Raster Image Processor
- Spectrophotometer, colorimeter.

Software Engineer, Engineering, **Peerless System** (1997)

Researched and assisted color management development.

Co-Authored paper, "Variable Rectilinear Interpolation" published in Imaging Science & technology. Developed and optimized Amplitude Modulation (AM) dither patterns for desktop printers.

Skills/Tools:

- Microsoft Visual C++ 4.0.
- Adobe Color Rendition Dictionary (CRD), Color Blind Color management.
- Quark Express, Adobe FreeHand, PageMaker.

Additional Experience

Student Intern, **Laboratory for Laser Energetic** (1993 – 1994)

Designed mechanical parts with CAD and machined (milling) aluminum parts for Phase Plate Image Enlarger (prototype). Performed darkroom film processing tasks.

Skills/Tools: Claris CAD, Milling machines, JOBO film processor

Student Intern, Imaging Technology Branch, **NASA-Ames Research Center** (1990)

Aided research scientists in the design and implementation for flow visualization, documentation. Performed industrial photographic tasks: video, printing, photography.

Skills/Tools:

- Still camera(s) – 35mm Nikon F4, 2 ¼" Hasselblad. Video – high 8, NAC 2000 high speed
- Optics – Moiré Schlieren. Printing – B&W, Color.

Education

Some graduate study for Master in Computer Science, **Towson University**, Towson, MD, GPA 3.00+

Certification, VxWorks Tornado training, **Wind River**, Alameda, California 1999

Bachelor of Science, Imaging & Photographic Technology,

Rochester Institute of Technology, Rochester, NY, granted 1994 GPA 3.00

Published

Chi T. Yeung and Bob Lin PhD., "Variable Rectilinear Interpolation" IS&T, 5th Color Conference (1997).

Conference presentations

"Pushin Pixels and Coloring Bits", SWF Camp, MNSWF (2010).

"Video2Panorama", SWF Camp, MNSWF and MinneBar(2011).

"Jewelry rendering with Flex 3D support", SWF Camp, MNSWF (2011)

Associations

MNSWF, FlashMN, .NET User Group, SPIE