

CURRICULUM VITAE

2002

ANTHONY A. TANBAKUCHI

born circa MCMLXXIX

Skills

- Creativity
Public Speaking
Digital Image Processing
Adaptive Image Processing
Algorithm Research
Digital Camera DSP Development
Color Reconstruction
Algorithm Research
Image Quality Circle
Tone Reproduction
Color Measurement
Database Design
Sensitometry
Color Coordinate Systems
Photographic Chemistry
Optics

Software

- C
Matlab
Visual Basic
LaTex
IDL
SQL
Adobe Photoshop
Corel Draw
Adobe Image Ready
Director with Lingo
Microsoft Access

Systems

- UNIX
Windows NT Server
Windows NT
Windows 98
Macintosh
TriMedia

EXPECTATIONS "Life is amazing: and the teacher had better prepare himself to be a medium for that amazement." - Donkey Work, Edward Blishen (b. 1920).

I have a strong interest in the field of imaging science and plan to continue my studies through graduate school. Ultimately, I hope to attain a strong grasp of the field and combine this knowledge with my enthusiasm and creativity so that I may teach imaging to others.

EXPERIENCE My experiences are as diverse as my skills and demonstrate my ability as a communicator, teacher, and imaging professional.

Sensor Engineer Currently working for Royal Philips Electronics, Image Sensors division, in The Netherlands on the development of image processing algorithms. Work has involved the development (in C and Matlab) of live defect detection and correction algorithms implemented in programmable chips; research in adaptive noise reduction demosaicing algorithms; and exhaustive analysis of algorithm performance based on image quality metrics.

Professor Coadjutant Current assistant to Dr. Russell Kraus (2 years standing). TA for Materials and Processes of Photography and System Design for Graphic Presentation courses. Duties have included: development of course material, developing automated web lab grading system with online grade book (included SQL database development and active server web page creation), conducting review sessions for students and management of course grades.

National Park Ranger [interpretation] Served as an Interpretive Park Ranger for National Park Service at Mount Rushmore National Memorial during the summer of 2000 and at Timpanogos Cave National Monument during the summer 1999. My duties included the creation, development, and presentation of educational programs on topics such as: natural sciences, national history, democracy and environmental impact. These programs ranged in size from 3 to 3,000 visitors of all ages in various formal and informal settings. I was a recipient of a service award in 1999.

Docent I served as a volunteer docent for the Museum of Photographic Arts in San Diego from 1996 to 1998. I conducted guided tours to public and school groups on changing exhibitions.

EDUCATION I am currently pursuing a unique education. It encompasses the science of imaging, the technology that enables it, and human perception that brings images to life. I am currently studying at the Rochester Institute of Technology in Rochester, New York. I am majoring in Imaging & Photographic Technology with an associates degree in Information Technology, an Advanced Certificate in Applied Statistical Quality, and a minor in Applied Communications. My cumulative GPA is 3.9/4.0. Expected graduation is spring of 2003.

A Highlight of my Course Work

Digital Image Processing Exploration of the technology, theory and application of digital image processing equipment and procedures. Applications such as: convolutions, MTF, spacial domain, smoothing, and edge enhancement are studied.

Electronic Sensitometry A study of image quality for electronic systems. Characterization of various I/O devices component by component to discover the effect on total system, and the component responses collectively used to determine system image quality.

Database & Data Modeling A study of data modeling process and database implementation fundamentals. Data modeling, relational concepts, process of normalization, relational algebra, and mapping a data model into a relational database.

Data Communications & Computer Networks A study of data communication hardware and software, and use of these components in computer networks. Topics include: packet switching, network control, common carrier issues, long-haul vs. Local area networks, and performance considerations.

Color Measurement A study of equipment and methods used for the measurement of color. Emphasis on light sources, radiometry, spectrophotometry, color order systems, color difference formulas and reproduction of color.

Photographic Sensitometry An investigation of quantitative photographic image quality. Effects from light source to output, component by component is studied by segment characterization and tone reproduction analysis.

Computer Architecture and Software Systems Study of computer hardware design, hardware organization, and computer operating systems. Exploration of Boolean algebra, digital logic design, integrated circuit logic families, CPU design, buses and addressing, interrupts and direct memory access, memory models and processor modes, computer peripherals, and system performance.



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