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DANE COUNTY, WI
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Mr. Larry R. Wickstrom
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Curriculum Vitae

Mr. Wickstrom has more than 40 years experience in maintaining government, commercial and personal computer systems, computer networks and desk top publishing systems. Over the years he has helped to develop Data Security and Disaster Recovery programs, Forgery Identification Protocols, Integrated Biometric Systems and security procedures to help prevent unauthorized access and identity theft. Mr. Wickstrom's involvement in identifying altered documents started while working as a volunteer at the Minneapolis VA Hospital after discovering that his own medical records had been accessed by altered / forged patient information release forms and he is now actively applying his computer skills, along with his knowledge of paper, ink and desktop publishing in detection of forgeries created electronically through the use of computer equipment and graphics editing programs.

The exacting copy of a person's signature and fabrication of highly realistic financial documents was once the realm of skilled artisans and unscrupulous members of the printing trades. With the advent and proliferation of today's technology, it is now possible for anyone to exactly copy the shape, even the ink color of a person's signature onto any document. Document forgery can be accomplished through the use of readily available, affordable and extremely versatile, off the shelf personal computer programs that were originally designed for desktop publishing or creating photographic portfolios. Programs such as Adobe Photoshop, GIMP (the "free" downloadable program) and a host of others, provide this capability with varying ease of use. Traditionally trained forensic handwriting analysts usually are not computer experts trained in printer technology, illustration software and how "moire patterns" characteristic of scanned printed media affect digital photo processing and reproductions of signed documents.

With the avalanche of computer altered and computer generated forged documents being produced around the world and the large number of computer generated documents being presented in foreclosure cases across the nation, the need to establish whether or not documents being used in foreclosure actions may be, in one or more respects forgeries, requires a considerable amount of background knowledge and technical expertise.

Mr. Wickstrom is a highly skilled inventory control, document handling and computer printing systems technician, a certified paralegal, an experienced vocational teacher and with testimony teaches how to identify computer generated forgeries. Mr. Wickstrom gives verbal opinions,

written opinions and testimony in digitally altered / document forgery cases.

Relevant Experience:

As part of Monarch Marking Systems field service force, Mr. Wickstrom was first responsible for on site service of custom manufactured high speed bar code printing and scanning systems used for inventory control, this equipment was capable of printing and reading hundreds of bar code labels per minute. The unique inventory control properties of 1d Bar Codes are used extensively by government agencies, health care and the banking industry to identify and quickly locate original hard copy documents. As part of maintaining the bar code 90% first pass read requirement, Mr. Wickstrom was trained to inspect and test the printing supplies for pulp expansion, runnability, sheet cockle, transfer adhesion, image quality, optical density, ink bleed, mottle, moisture resistance, ect., etc.. When OCR-A became the desired medium for processing retail sales Mr. Wickstrom accepted the position of Regional Systems Supervisor and put his vocational teaching skills to use teaching others how to maintain print quality and identify supply issues. OCR in various forms is also used by government agencies, health care and the banking industry to identify and quickly locate original hard copy documents.

As part of CPT Corporation's factory training staff Mr. Wickstrom was responsible for teaching factory certified technicians every aspect of CPT's desktop publishing system. As part of maintaining the highest level of operational availability and the highest quality of print possible, Mr. Wickstrom passed on his knowledge of Data Communications and acquired his intimate knowledge of desktop document production and reproduction.

As a good cause side project and with some assistance from the University of Madison Trace Research and Development Center, Mr. Wickstrom was able to acquire source code access to software produced by several like minded companies and built the first "Real Time" spoken English to American Sign Language translation system. The lexicon of this prototype translation system was created by digitally scanning over 2,500 line art drawings from the American Sign Language dictionary into graphic image files and manipulating the program lexicon to screen display graphic ASL images in place of text.

Related Experience:

As owner of Data Installations Inc. an independent Data Communications service company Mr. Wickstrom specialized in Data Communication Networking and integrating mainframe computer system from multiple manufactures. Using the same forensic skill set he now uses to identify altered and fabricated documents he helped Sperry isolate a clocking problem that was holding up the new government data backbone. The infrastructure of the abandoned government system morphed into what is now called the Internet, he also helped to streamline Medicaid health care verification access. In the function of any computer the only output is printer, the only input is punch. In the creation of any other application whether it is running a production line or saving scanned documents, hardware interfaces must be created and software must be written to control

these interfaces if the computer is to be convinced that it's doing what it's designed to do. Mr. Wickstrom worked closely with software developers, computer and communications equipment suppliers and provided technical expertise to resolve many system related new application issues.

As part of an ad hoc engineering group working through Biometric Integrators Inc., and with the understanding that security is a three legged stool, what you have, what you are, what you know. Mr. Wickstrom overcame one of the major weaknesses in using biometric / voice print as part of user identification process to secure internet financial transactions and developed an interactive voice recognition application that was less processor intensive, capable of working in conjunction with Visa (card swipe) protocol and exponentially increased the cost of defeating voice identification technology.

Education:

Boston University, Massachusetts, Paralegal Certification.
University of Minnesota & College of St. Thomas, Minneapolis & St. Paul, Minnesota. Minnesota Vocational Teaching license required classes.
Suburban Hennepin Technical Minneapolis, Minnesota, Electrical Engineering Technology.
Community College of the Air Force, Avionics & Radar Technology.