

**Cherry Biometrics Inc.
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(201) 513-8300**

Manfred Schenk Professional Profile

Mr. Schenk is a Certified Wireless Analyst (CWA), Computer Scientist and Operations Research Analyst. He has extensive Data Communications and Network Planning and Modeling experience. He is a member of the Telecommunications Society for Electrical and Electronic Engineers (IEEE).

He has many years of computer programming and telecommunications network design experience that focus on queuing and RF transmissions within the aerospace, telephone, brokerage and banking industries.

Some of the past organizations that he has assisted include: International Telephone & Telegraph (ITT), Western Union International, IBM, Prudential Bache, the US Navy, US Air Force and NASA. He was an early design team member of Project Apollo 11, The Mission to the Moon.

He has written software that analyzes and finds hidden errors in Verizon's RTT (Real-Time Tool), Sprint's PCMD (per call message data), and AT&T's NELOS (network event location system) measurements. His more than 10,000 hours of analysis and expert witness experience includes many cases where Cell Phone Company Call Detail Records (CDR's) were initially misinterpreted. Some of his wins include:

Robert Walter Fischer was freed on bond. He spent 11 years in prison before his Texas habeas win.

The Habeas and subsequent release of Lisa Roberts. Lisa had served 12 years in prison before being released as innocent.

The Federal Daubert Hearing associated with the United States of America v. Antonio Evans Case No. 10 CR 747-3 where Federal Judge Joan Humphrey Lefkow ordered that "Special FBI Agent Raschke may not testify concerning the theory of granulization, which the court finds to be unreliable. In addition, the estimated coverage areas contained in summary exhibit 6 must be removed before the court will admit this exhibit." The case ended with a not guilty verdict of all charges including kidnapping.

The Federal Daubert Hearing associated with the United States of America v. Roderick Thornton. In that case U. S. District Judge Amy Totenberg ruled, "The Court would have significant concerns if Special Agent Fitzgerald were to offer an expert opinion on the precise street location or radius where the Defendant's phone communications were made based on the telecommunications data and methodology identified in his testimony."

PROFESSIONAL EXPERIENCE

Senior Technology Officer 2001 – Present Cherry Biometrics, Inc. and Schenk Consultants, Los Angeles, CA

Project leader, proprietary next generation cybersecurity solutions that use geolocation attributes and biometric repositories.

CENTURY CORP., formerly DSP Inc. 1995 – 2001

IBM Supplier/Business Partner and Sony Business Partner Manager

Manage assembly line re-engineering projects for Xerox Manufacturing and Yoo-hoo Beverage. These very large international re-engineering projects incorporated SCADDA assembly lines, CCTV systems and factory IT systems. Analyst for DSP Corp. a technology supplier and business partner who built digital imaging solutions for IBM and Sony that helped launch their business-to-business replacement of conventional photography with digital photography. Digital images are indexed and stored into large repositories allowing rapid access and display of images along with associated reports including arrest records. Popular uses for this pioneering technology included insurance claims and the digital storage and retrieval of an individual's arrest history and associated mug shots. Clients included: State Farm Insurance, Kemper Insurance, Allstate Insurance, Farmers Insurance, Clark Police, the Albany Police and hundreds of other organizations worldwide.

Riverside Research Institute, New York, NY 1992 - 1995

Medical Research Analyst

Research and design of diagnostic equipment that uses ultrasound to recognize tissue associated with prostate cancer. Successful medical trials confirmed the detection of neoplasm of the prostate as well as liver and breast. Design considerations included the integration of custom fast Fourier transformation (FFT) chips with RISC processors. Further researched included the feasibility of a therapeutic ultrasound heat treatment modality.

Independent Consultant

Assisted International Telephone & Telegraph (ITT), a defense contractor and cell phone operator, in the design of their formative cellular infrastructures. Tasks included frequency and channel capacity planning, simulation and modeling, waveform design

and analysis, digital beamforming techniques, digital signal processing, and statistics and stochastic processes. Additional projects included: The design of a global money order system used by Western Union, a sales tracking system for IBM clients, the design of the underwater real-time digital communications system for use of the Integrated Radio Room of the Trident Submarine for the U.S. Navy, the design of an infra-red missile tracking system for the U.S. Air Force and a radar altimeter for the Lunar Excursion Module for NASA's Moon Mission.

Adjunct Professor of Mathematics, Cochise College, Arizona.

EDUCATION

University of Michigan, M.A. Mathematics

Rutgers University, B.A. Mathematics

Newark College of Engineering, A.S. Engineering