

**Cherry Biometrics Inc.  
4506 Brookfield Corp. Drive  
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## **Manfred Schenk Resume**

### **Professional Profile**

Manfred Schenk is a Telecommunications Engineer with more than thirty years of hands-on experience advising IBM, ITT, Western Union and others. He strongly differs with the law enforcement belief in cell tower tracking. His belief was upheld when he testified in State v. Antoine Davis. A failed case that was based on cell tower tracking and snitch evidence. In People v. Nick Sorrentino, the Sprint Node Engineer offered that his firms multicolored use map was only 70-80% accurate, ruling out Manfred's need to testify.

He assisted ITT Defense Communications in the design of their 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. Addition projects included: The design of private data and voice networks used by Western Union and IBM clients, the design of the underwater real-time digital communications system used by The Integrated Radio Room of the Trident Submarine, the design of a missile tracking system that isolated infra-red signals from a cluttered background environment.

He often works within radio frequency environments including satellite, microwave and cell tower. He has analyzed both clustered and non-clustered cell tower topologies. Some of the organizations he has advised are ITT, Northrop-Grumman, Western Union, NASA, IBM, the US Navy, the Riverside Research Institute and Cherry Biometrics Inc. He worked as an early design team member of Project Apollo, Mission to the Moon.

His previous firm, Schenk Consultants, was one of less than 60 worldwide organizations that voted on the Law Enforcement's ANSI/NIST-ITL 1-2007 data format for the Interchange of Fingerprint, Facial, IRIS, and other Biometric Information. Some of the other organizations who also exercised their one vote were: the Federal Criminal Police Office of Germany, the FBI, the Netherlands National Police Agency, Interpol and the Royal Canadian Mounted Police. He has assisted Cherry Biometrics Inc. in the winning of several county, state and federal fingerprint cases. He has also acted as a technical editor of Cherry Biometric Fingerprint Articles that appear on the US Department of Justice NCJRS Web Site.

## **PROFESSIONAL EXPERIENCE**

**Senior Technology Officer**  
**Cherry Biometrics, Inc. and Schenk Consultants**  
**Los Angeles, CA**

**2001 – Present**

Expert witness who is forcing law enforcement to change their long-standing claim that cell phones always connect with the closest tower/strongest signal. The jury agreed with him in State v. Antoine Davis. A case that was based on cell tower tracking and snitch evidence. In People v. Nick Sorrentino the Sprint Node Engineer offered that his companies multicolored use map was only 70-80% accurate. Assist in the winning of several fingerprint cases. Research the latent fingerprint matching paradigm including the handling of deformations and similarities. Study the inclusion of new parameters and technologies including skin pores and enhancements. Additional projects included digital photography, cell tower tracking and cyber security.

**CENTURY CORP., formerly DSP Inc.**  
**IBM Supplier/Business Partner and Sony Business Partner**  
**Manager**

**1995 – 2001**

Manage Y2K systems remediation/re-engineering for Xerox Manufacturing and Yoo-hoo Beverage. These very large international remediation/re-engineering projects incorporated IT, SCADDA assembly lines, CCTV systems and factory IT systems. Century received a Letter of Appreciations from the White House, the Office of Management and Budget (OMB) and NIST.

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**  
**Medical Research Analyst**

**1992 - 1995**

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.

## **EDUCATION**

University of Michigan, M.A. Mathematics

Rutgers University, B.A. Mathematics

Member International Association for Pattern Recognition (IAPR)

Member Institute for Electrical and Electronic Engineers (IEEE) Technical Committee on Pattern Analysis