OMB No. 0925-0001 and 0925-0002 (Rev. 10/15 Approved Through 10/31/2018)

BIOGRAPHICAL SKETCH

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NAME: Walter Guy Scott

eRA COMMONS USER NAME (credential, e.g., agency login):GUY_SCOTT_PI

POSITION TITLE: President, WinProbe Corporation

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	Completion Date MM/YYYY	FIELD OF STUDY
Auckland University, New Zealand	BSc	12/1972	Physics, Math
Auckland University, New Zealand	MIEE	12/1973	Electronics Computer science

A. Personal Statement

I began his career in ultrasound in 1975 specializing in sales of the Searle B-Scanner in Australasia. Having an electronics background I developed a radiotherapy planning system in the scanner's embedded PDP11 microprocessor and moved to the factory headquartered in Santa Clara California. Siemens purchased the company and I moved with the factory to Des Planes, Illinois as the ultrasound product line manager. In 1981 I founded of Pie Data Medical and was instrumental in designing their initial product lines while managing the establishment and marketing of the company's products in the Americas.

I then began the Probe Corporation for more specialty and developing areas like urology and veterinary. In 1986 the Probe Corporation grew to exceed the Pie opportunities and market and became my major effort.

In 1996 I founded Cross Match Technologies Inc., a company specializing in finger print acquisition technologies. We designed the Verifier an optical single print device now used at every customs entry station in the USA. Then the Identifier the first 10-print system to pass the PBIs standard for 500 dpi acquisition. I then attained a NIST APT Grant to develop impediography, a method of detecting fingerprint ridge patterns by the impedance change in a pillar when it came in contact with a ridge versus the pillars in the fingerprint valley that were free to vibrate without loading. That is now a company called Sonovation Inc. Cross Match Technologies Inc., was sold to Franciscan partners.

I simultaneously founded the WinProbe Corporation to accommodate a group of engineers as partners in the environment created by the Probe Corporation based on our common vision of producing non-invasive medical imaging products at low cost to the end user. This vision was realizable with new technologies that have become more virtual than tangible as the intelligence of the instrumentation can reside in code instead of physical wiring.

The research at WinProbe is directed to design and fabricate transducers, beamformers, correlators and user interfaces WinProbe is currently offering for sale the development product called an UltraVision Ultrasound System and accessories.

B. Positions and Honors

1999-present President and Founder of WinProbe Inc. Responsible for product concept and managing design team designing and developing advanced ultrasonic scanner for commercialization. The company is based on a concept of housing the console of an Ultrasonic Scanner in a PC while housing the beamformer, detector and scan converter in connected modules.

1998 – 2005 Founder and Director of Research and Development, Cross Match Technologies, Inc. Responsible for all product line concepts designs and intellectual property of current and future live fingerprint products. Achieved highest FBI certification of image quality for company's product. The products are accepted as the premier choice by all US government agencies. The company's intellectual property portfolio is currently over 50 patents or patents pending. Cross Match Technologies Inc currently has sales of over $120 million in 2007 and was sold to Franciscan Partners for $240 million.

1996-1998 President and Founder of Cross Match Technologies Inc. Responsible for Product concept, design, performance, sales and performance for investors. Took company from research in laboratory to production of many thousands of units that have reputation of best in the industry.

1982-1996 President and Founder of the Probe Corporation and performed the functions of President and Chief Scientist. Initially designing and producing the Kramed series of prostate scanners and later designed the Vision Series of Ultrasonic Scanners which were licensed to factories for production in USA, Canada, United Kingdom, France and India where tens of thousands have been produced and sold.

1982-1987 President and Co-Founder of Pie Data Medical Inc. Performed the functions of President and Designer being responsible for concepts and designs of companies lines of real time sector and linear scanners. Taking the company from its genesis to a $20 million in annual sales before selling his shareholding to concentrate on The Probe Corporation.

1980-1982 Product Manager for all Ultrasound products for Siemens Gammasonics in Chicago where he developed a real time Sector system and a low cost linear array system. Responsible for product designs and concepts for Matshushita (Panasonic) ultrasonic product line. 1978-1980 Product Manager for Searle Nucleonics in Santa Clara California that was purchased by Siemens to become Siemens Gammasonics. He was responsible for product development in ultrasonic transducers until Siemens moved him to be responsible for all ultrasound products in Chicago.

1973-1978 Salesman and Engineer at Nuclear Chicago later to be become Searle Nucleonics and developed a Digital Ultrasonic Radiotherapy Mapping System based on the then Searle PhoSonic Ultrasound System in Australia. Moved to factory in Santa Clara to develop other new features of system. List in chronological order previous positions, concluding with the present position. List any honors. Include present membership on any Federal Government public advisory committee.

C. Contribution to Science

A method of scanning the prostate in 3D with a linear array and a low cost inclinometer.
40 plus patents in the field of fingerprint scanning

D. Research Support

There has been no research support for the last 3 years. Prior support highlights are:

4R44EB012429-02 Low cost Multi-modal array based small animal scanner.
1R43EB001577-01 Advanced Ultrasonic Medical Imaging Transducers
5R44CA110079-03 Opto-Acoustic and Ultrasonic Imaging of Angiogenesis
5R44HL091609-03 Integrated Multifunctional Imaging of Deep Vein Thrombosis
1R43EB015269-01 Investigate a practical high sensitivity PVDF multi-element SBCT ultrasound transducer