

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Thomas Edward von Wiegand, Ph.D. 14 Summer St. Ste. 403, Malden MA	POSITION TITLE Principal Research Scientist – Sensimetrics Corporation Chief Technology Officer – Corpora Systems, Inc.		
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Columbia University New York City, NY	BS	1987	Electrical Engineering
Franklin & Marshall College Lancaster PA	BA	1987	Physics
Columbia University New York City, NY	MA	1990	Experimental Psychology
Columbia University New York City, NY	MPhil	1991	Experimental Psychology
Columbia University New York City, NY	PhD	1993	Visual Psychophysics
Massachusetts Institute of Technology Cambridge, MA	PostDoc	1993-1996	Elec.Eng. / Expt. Psych.

A. Personal Statement

I have demonstrated through my scientific career that I have the expertise, leadership, and motivation necessary to successfully obtain independent funding and serve as Principal Investigator on R&D projects. I have a broad background in Experimental Psychology, Electrical Engineering, and Physics, and have been particularly interested in human psychophysics and novel human-machine interfaces throughout my career. After my graduate research in visual psychophysics and modeling, I undertook a postdoctoral position at MIT Research Laboratory of Electronics in the area of Virtual Environment Technology in which, among many other interface techniques, I developed biosensors for assessing arousal states for the purpose of enhancing training and assessing the veridicality of virtual displays. As Principal Research Scientist I have served as PI or co-Investigator on many private, military, NSF and NIH-funded grants, and have carried out project administration as well as performance of engineering and scientific functions in these projects. One of my most recent funded projects involves design and mass production of a miniaturized wireless tactile interface for the deaf. In my capacity as CTO I have led developments in novel devices for medical instrumentation and performed a wide variety of entrepreneurial functions.

B. Positions and Honors. List in chronological order previous positions, concluding with your present position. List any honors. Include present membership on any Federal Government public advisory committee.

1978 – 1983 Electronics Technician, Home Audio Electronics, JCPenney Product Service, Ephrata, PA
 1980 – 1982 Founded computer peripheral company, Syntex Electronic Innovations, Lancaster, PA
 1996 – 2001 Research Scientist, Massachusetts Institute of Technology / RLE, Cambridge, MA
 1998 – 2000 Associate Editor, MIT Press Journal: Presence, Cambridge, MA
 1998 – 2002 Staff Scientist, Sensimetrics Corp., Somerville, MA
 1999 – 2001 Director of Product Development, Children's Progress Inc., New York City, NY
 2000 – 2007 Editorial Board, MIT Press Journal: Presence, Cambridge, MA
 2001 – 2010 Research Affiliate, Massachusetts Institute of Technology / RLE, Cambridge, MA
 2002 – present Chief Technology Officer, Corpora Systems Inc., Malden, MA
 2002 – present Principal Research Scientist, Sensimetrics Corp., Malden, MA

Other Experience and Professional Memberships

Member of Sigma Xi, New York Academy of Sciences, IEEE, Sigma Pi Sigma physics honor society.

C. Selected peer-reviewed publications.

1 R43 DC009960-01A2
NIH (NIDCD)

Wiegand (PI)

07/01/2009 – 06/30/2011

Conversation Assistant for Noisy Environments

Project to develop and test a product that will assist conversation via infrared communication signals.

Role: Principal Investigator

Recent Research Support

1 R43 DK064513-01
NIH (NIDDK)

Wiegand (PI)

09/01/2005 – 08/31/2007

Portable Standardization Tool for Erectile Dysfunction

The goal is to develop a new device for diagnosis of erectile dysfunction that integrates the capacity to generate repeatable stimuli and real time physiological monitoring within a single unit.

Role: Principal Investigator

1 R43 DC08488-01
NIDCD

Wiegand (PI)

09/01/2006 – 08/31/2008

A Wireless Self-Contained Tactile Aid

This work is aimed at the development of a tactile aid for the deaf contained in a small unit that can be worn on an arm like a wristwatch.

Role: Principal Investigator

PRIME W911W6-06-C-022 Charles River Analytics (Prime Contractor)
SUBCONTRACT SC054701
ARMY

11/15/2006 – 11/15/2007

Multimodal Interface Toolkit for UAV Systems (MITUS)

The goal is to develop novel human-system interfaces that improve the likelihood of mission success and help address shortcomings of existing controls and displays for UAV platforms

PRIME W91CRB-06-C-0034
SUBCONTRACT SC0607001
ARMY

Charles River Analytics (Prime Contractor) 11/10/06 - 05/01/2010

Developing Audio Alerts and Verbal Cues for Improving Soldier Situational Awareness (DAVIS)

The goal is to develop methods and algorithms for the aural presentation of information to dismounted infantry to improve situational awareness and reduce information overload.