

Résumé

Howard M. Tanner. FRSA-Industrial Designer

4447 N. Glenway St • Wauwatosa • WI 53225 • Ph. 630.696.7071 • howard.tanner@sbcglobal.net

Personal Statement:

I believe effective Industrial Design to be the most successful interaction of art and science. A complex concept deterring use, my designs are predicated upon a user's optimal interaction with the subject product and the technology it comprises. My products are simple in conception, and their use is both intuitive and a pleasure.

Always stimulated by the requirements of a design brief and routinely without specific prior experience in a program's subject area, my creativity, engineering instinct, knowledge of materials, processing and industrial experience have, working collaboratively with client or employer teams, enabled the discovery of original, IP-worthy product answers to the most demanding, adventuresome design questions and, to their commercial success.

Professional Capabilities:

With employer or consultant design teams my program-determined design responsibilities have included:

- Basic research and Product definition
- Product + Mechanical design
- Concept sketching...analog, I'm not Leonardo!
- Concept modeling...SolidWorks/KeyShot
- Concept model creation...rapid prototyping/machining/foam core
- Physical testing/product refinement/vendor enquiries
- 2D/3D product documentation/IP prima-preparation/material processing/specification to manufacturing release

Design Innovations:

With others, my skill-set has enabled the creation of **the first**:

- pluggable laser fiber...HGM Medical-UT
- adoption of TEM-01 (doughnut-mode) laser with ultrasound visualization to treat Trans Urethral Prostatectomy (TURP)...Sorenson Medical-UT
- planer peristaltic pump and cartridge for patient controlled pain management...Sorenson Medical-UT
- minimally-invasive laser-based intervention incorporating unique sutures to treat Abdominal Aortic Aneurisms...Endo-Vascular Associates
- sound limited/vibration attenuated home fragrancing product...Client-WI
- cartridge-based water purifiers using fully saturated brine...Pentair-WI
- Ring-needle-based tattoo removal system with vibration attenuating grip...Rejuvatek Medical-UT

and the awarding of

- **30+ patents** in areas of medical, consumer, commercial and engineering product development that both enhanced the IP-owner's corporate valuation and generated product licensing revenues

Education:

University of Utah, Salt Lake City, Utah

- Courses toward BS, Mechanical Engineering

Ealing Art College, **London, England

- College Diploma-Industrial Design
- Licensure-Society of Industrial Artists & Designers
- Licensure-Royal Society of Arts

Ware College, Ware, England

- City&Guilds of London Plastic Technician's Certificate
- Licensure, Plastics & Rubber Institute

Education-additional

Independent Research Project

2002 - 06

- Post graduate studies-Industrial Design
Dissertation: The development of a bio-integrating suture and method of its deployment within a prosthetic graft/mammalian tissue matrix.

Design Engine Education, Chicago, IL

2004

- SolidWorks training

Professional Affiliations:

Fellow Royal Society of Arts (FRSA)

2003

Spark Design Awards.

- Winner-Challenger Status, 'Best of '08'

2008

**became University of West London

Professional Experience:

Assisted the following companies in their product design/development activities:

Rejuvatec-SLC, UT 07.2021 - 05.2023

Research Designer

For the tattoo removal industry and with collaborators investigated methodologies to • simplify/speed procedure set-up • foreshorten treatment cycle and make treatment outcomes less medical-technician dependent • make technician/client experience more comfortable • simplify post treatment procedures

PENTAIR-Milwaukee, WI 09.2018 - 06.2021

Design Specialist

With collaborators created • next generation domestic/commercial water treatment/related treatment methodologies • new brine-based Point-of-Entry water softener technique • cartridge-based Point-of-Use water purifier • performance and cost improvements to legacy products

DESIGN MATTERS-Wauwatosa, WI 05.2016 - 09.2018

Principal

With colleagues/collaborators designed/developed • external packaging elements of a Medical Imaging System (Techniscan) incorporating Warm Bath Ultrasound technology • an electric Hobbyist Hand Tool (Bosch/Dremel) • a battery powered Portable Dialysis Pump and a Pain Management Device (Sorenson) • a range of Watering Cans and Tea Kettles (Henkel) • a Centennial-Honoring Vacuum Jug (Thermos)

PROLITEC Inc.-Milwaukee, WI 07.2012 - 04.2016

Principal Designer:

Created • commercial and consumer fragrancing appliances • market-leading air pumps incorporating new sound-attenuation/vibration-isolation methodologies • legacy product updates and line extensions. Enhanced/reimagined • venturi designs • tamper-proof/affordable fragrance cartridges.

JJL TECHNOLOGIES-Morton Grove, IL

Senior Product Manager

With colleagues created/developed/manufactured 'Easy Shade' an Electro-Optical Device measuring the precise color of teeth. Design elements included • internal/external caseworks • human-factor/display and interface design • inter-component communication • charging/replenishment considerations. Entire program was acquired by Vita-GMBH

ENDO VASCULAR ASSOCIATES-Washington, DC

Director of Industrial Design

With colleagues/collaborators, researched/developed/designed a revolutionary minimally invasive method and related hardware to treat Abdominal Aortic Aneurysms-**AAA**. System included • Metal Suture (Endostaple) • suture placement/ deployment Hand Tool • Treatment Catheters • Prosthetic Grafts • Guide-line transection/Intraluminal positioning/in-blood viewing devices. Lead system development through successful FDA sanctioned animal trials to (pre) Human-Trial testing