

NEIL SHEEHAN

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Education:

Villanova University, Villanova, PA: BS Mechanical Engineering, 1968
Summa Cum Laude
Newspaper Editor-in-Chief
1993 Alumni Professional Achievement Award

Harvard University, Cambridge, MA: Graduate School, 1968-1969
Engineering and Applied Physics
National Science Foundation Fellow

University of California, Berkeley, CA: Pre-Med Coursework, 1974-1975
Organic Chemistry and Biology

Experience:

1993-2016 **Consulting Engineer and Expert Witness** (1995-2016)
Independent consulting engineer specializing in medical products design and development with a focus on medium and high volume disposable devices and components. (Expert witness information is available upon request.) Engineering clients, in alphabetical order, have included:

Arcturus (Mountain View, CA)	<i>Laser micro-dissection disposable elements and packaging designs.</i>
Better Care (San Francisco, CA)	<i>Male and female incontinence devices.</i>
BlueVine Ventures (Menlo Park, CA)	<i>Medical technology assessments.</i>
Cardeon, Inc. (Huntington Beach, CA)	<i>Specialty cardiac catheter.</i>
Cardiometrics (Mountain View, CA)	<i>Diagnostic cardiac catheter components.</i>
Decibel Instruments (Hayward, CA)	<i>Disposable elements for innovative hearing aid system.</i>

EconoMEDics Inc. (Palo Alto, CA)	<i>Medical devices for emerging markets.</i>
Eunoe, Inc. (Pleasanton, CA)	<i>Implantable Alzheimer's Disease devices.</i>
Fallbrook Engineering (Valley Center, CA)	<i>Various proprietary medical devices.</i>
FemmeSource Health (Pasadena, CA)	<i>Various gynecological diagnostic devices.</i>
Fogarty Engineering (Portola Valley, CA)	<i>Proprietary catheter devices.</i>
Heartstream (Seattle, WA)	<i>Multi-function defibrillator electrodes.</i>
Hexcel (Pleasanton, CA)	<i>Proprietary materials-based device.</i>
HiLife Therapeutics (So. San Francisco, CA)	<i>Lens enhancements for patient communications systems.</i>
Inviro Medical Devices (Vancouver, BC)	<i>Innovative safety syringes.</i>
IPT, Inc. (Palo Alto, CA)	<i>Umbilical cord blood sampler/clamp.</i>
Katecho, Inc. (Des Moines, IA)	<i>Multi-function defibrillator electrodes and other proprietary devices.</i>
Keimar, Inc. (Mountain View, CA)	<i>Proprietary in vivo measurement of blood parameters.</i>
KippGroup (Ontario, CA)	<i>Proprietary IV-related device.</i>
Lucent Medical (Bellevue, WA)	<i>Endoscopic tool containment systems.</i>
Mallinckrodt / Nellcor (Pleasanton, CA)	<i>Pulse oximetry sensors.</i>
Mayfield Fund (Menlo Park, CA)	<i>Medical technology evaluations.</i>

McGaw, Inc. (Irvine, CA)	<i>Cannula-based needle-less injection sites for IV administration.</i>
Medasonics (Fremont, CA)	<i>Transcranial ultrasonic (Doppler) probe mounting systems.</i>
MedicalCue (Mountain View, CA)	<i>Proprietary universal newborn screening technology.</i>
Medisystems (Seattle, WA)	<i>Hemodialysis bloodline components.</i>
Medtronic CardioRhythm (San Jose, CA)	<i>Cardiac ablation catheter systems.</i>
Minimus Surgical (Menlo Park, CA)	<i>Proprietary obesity surgery devices. (Founder)</i>
Natus Medical (San Carlos, CA)	<i>Advanced ear couplers and electrodes for newborn hearing screener.</i>
Nexan (Cambridge, UK)	<i>Proprietary multi-function electrode systems.</i>
Pneumation (Evergreen, CO)	<i>CPAP (Continuous Positive Airway Pressure) system for sleep apnea.</i>
R&D Medical (Lake Forest, CA)	<i>Various high-volume disposables including complex electrode systems.</i>
Rhaphis Medical (Sunnyvale, CA)	<i>Semi-automatic surgical suturing device for the third world.</i>
Starion (Palo Alto, CA)	<i>Proprietary electrosurgery device.</i>
Target Therapeutics (Fremont, CA)	<i>Packaging and delivery system for cranial catheter/coil occlusion device.</i>
Vigilo Networks (Cupertino, CA)	<i>Remote sensing of physiological parameters via disposable patch.</i>
Woodside Biomedical (Carlsbad, CA)	<i>Proprietary nerve stimulation electrode designs (disposable and reusable).</i>
Woolsthorpe LLC (Brentwood, TN)	<i>Proprietary pulse oximetry applications.</i>

- 1989-1992 **Natus Medical Inc.**, Foster City, CA
Vice President, Engineering and Manufacturing
Medical electronics and disposables for neonates.
Start-up. Created and managed engineering, manufacturing, documentation, quality assurance, materials, clinical testing, customer and technical service. Established comprehensive vendor network. Thirty-five employees.
- 1987-1989 **Nellcor Incorporated**, Hayward, CA
Manager, Disposables Engineering
Pulse oximetry and capnography.
Design, management of small staff, clinical research, marketing aids, national sales meeting presenter.
- 1986-1992 **Medisystems Corporation**, San Francisco, CA
Consultant
Hemodialysis blood tubing sets and related components.
Individual contributor.
- 1986-1987 **Critikon, Inc.**, San Jose, CA
Senior Mechanical Engineer
Intravenous delivery systems and sets.
Coordination of San Jose, Tampa and Japan Medical Supply.
- 1985-1986 **Raychem Corp. / Menlo Care Inc.**, Menlo Park, CA
Consultant
Intravenous catheters and systems.
Individual contributor.
- 1984-1985 **American Hospital Supply Corp.**, Emeryville, CA
Senior Project Engineer
Liquid handling systems, especially pipettors.
Individual contributor, liaison during transfer to American Dade.
- 1982-1983 **Liquid Bracelet Company**, Berkeley, CA
Sole Proprietor
Liquid-filled (IV tubing) fashion jewelry (\$250,000 in sales).
Design, manufacturing, marketing, sales and public relations.
- 1975-1982 **Cutter Laboratories**, Berkeley, CA
Product Development Engineer
Intravenous delivery systems and components.
Individual contributor, liaison to other plants.
- 1969-1973 **Magnetic Head Corporation**, Hauppauge, NY
Design Engineering Supervisor
Magnetic tape heads for computer peripherals.
Created department, documentation and MRB systems.

1965-1967 **Tangent Machine and Tool Corp.**, Farmingdale, NY
Summers Tool Designer/Drafter and Machine Operator

Product designs, inventions and patents (partial list):

Consultant

Innovative manufacturing methods and devices for athletes (Rosecroft)
Extrusion, materials, adhesives, design configurations
Patent No. 9,009,869 (April 21, 2015)

Innovative percutaneous surgical devices and methods (Minimus)
Inflatable anchors, obesity applications, organ wall implantation
Patent No. 8,070,673 (December 6, 2011)

Innovative percutaneous surgical devices and methods (Minimus)
Tissue modification, obesity applications, anchor systems
Patent No. 7,931,580 (April 26, 2011)

Innovative percutaneous surgical devices and methods (Minimus)
Device implantation, obesity applications, fastener systems
Patent No. 7,255,675 (August 14, 2007)

Innovative safety syringes and accessories (Inviro)
Injection molding, assembly techniques, differential resistances.
Patent No. 6,394,979 (May 28, 2002)
Patent No. 6,616,632 (September 9, 2003)

Chest-mounted, multi-function electrode systems (Nexan)
Rotary die cutting, hydrogels, adhesives, assembly techniques.
Patent No. D 425,203 (May 16, 2000)
Patent No. 6,385,473 (May 7, 2002)

Packaging and delivery system for catheter/coil occlusion device (Target)
Injection molding, porous plastic, assembly techniques.
Patent No. 5,669,931 (September 23, 1997)
Canadian Patent No. 2173023C (August 28, 2001)

Multi-function defibrillation electrode systems (Heartstream)
(Proprietary Information)

Advanced ear coupler and electrode designs (Natus)
Injection molding, die cutting, acoustic shaping, universal disposable.
Patent No. 5,826,582 (October 27, 1998)
Patent No. 5,913,309 (June 22, 1999)
Patent No. 6,386,314 (May 14, 2002)

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