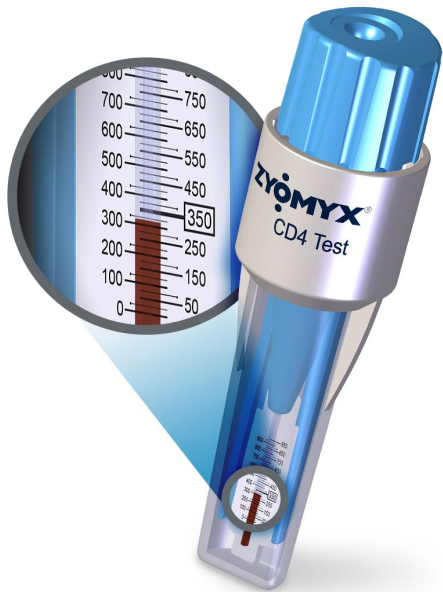
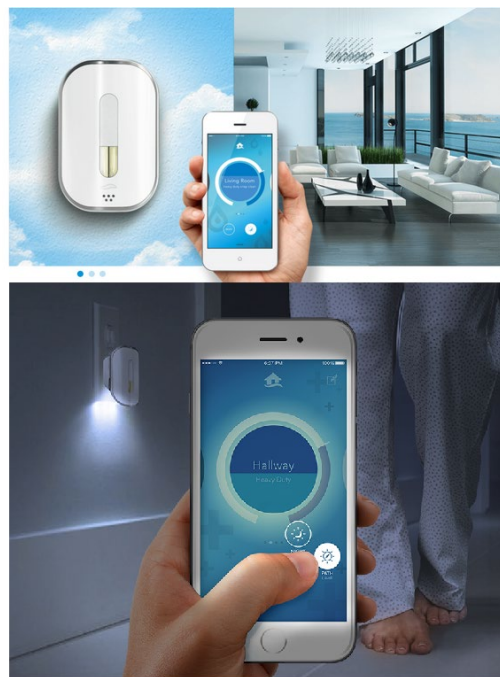
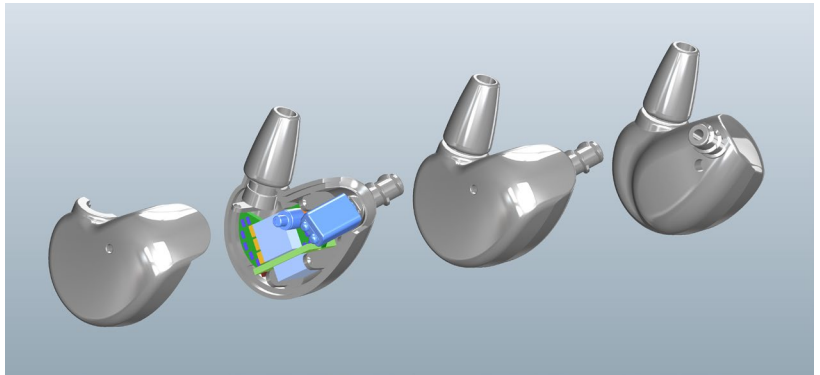
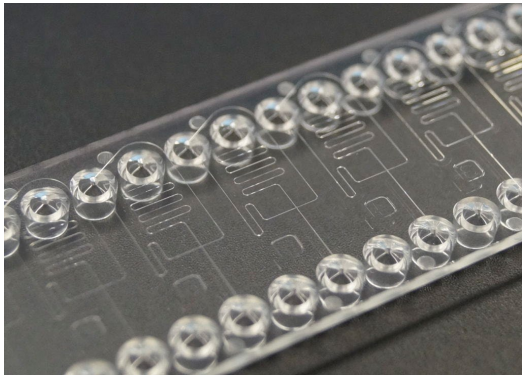
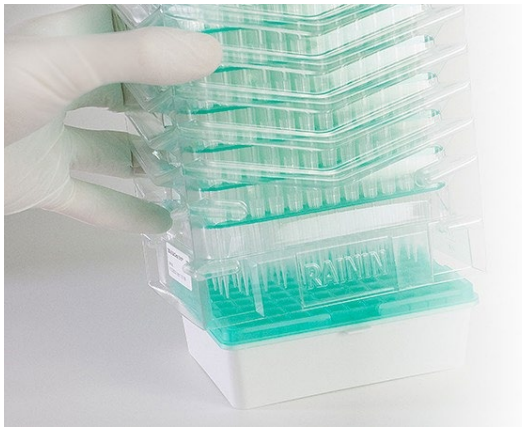


Kelly Device Design, LLC

Product Design & Engineering Consulting

Extensive medical, laboratory, and diagnostic device experience
Expert advisor to your team, solutions to problems, complete designs





Please visit: www.kellydevicedesign.com, or contact Chris Kelly at: kellydevicedesign@gmail.com

SUMMARY

Highly creative, highly practical, and very cost-effective industrial design and mechanical engineering solutions for your firm's product development efforts.

Thirty five years of experience developing exceptionally well-designed and engineered medical devices, laboratory & scientific instruments, and consumer products. Important contributions to several hundred product development projects. Areas of expertise include:

- Foresight in recognizing challenges early and adept at conceiving practical solutions
- Strong brainstorming, conceptualization, invention, and problem-solving abilities
- Plastic part design and injection molding tooling (in-depth knowledge)
- Device ergonomics
- Mechanisms and control linkages
- Liquid handling and microfluidics
- Highly functional thermoformed packaging
- Interface and lightpipe design
- Advanced CAD modeling skills (Solidworks)

PROFESSIONAL EXPERIENCE

KELLY DEVICE DESIGN, LLC

2003 – Present

Principal, Product Design Consultant

Provide accurate problem analysis, propose innovative and practical design solutions, identify and address project challenges early in the design process, provide maximum design quality and client satisfaction while integrating seamlessly with your company's team.

Partial list of recent projects:

- Immunoassay Cartridge & Instrument – Correlia Biosystems
- Influenza Diagnostic Test Device – Lucira Health
- Exercise Equipment Lift Mechanism – AlterG
- Smart Household Air Freshener – Proctor & Gamble
- Microfluidics Chip Package – 10X Genomics
- Hearing Aid Storage Case – Whisper
- Molded & Thermoformed Packaging – Yuto Creative Design
- SpaceSaver, GreenPak, and TerraRack Packaging – Rainin Instrument
- Cell Thawing Instrument – Biocision
- Aids Diagnostic Test Cartridge – Zyomyx
- Experimental Product Explorations – Rainin Instrument
- Quantitative PCR Instrument – QuantaLife (now Bio-Rad)
- Handheld Steam Therapy Inhaler – Vapore
- Microfluidics Chip Design – QuantaLife (now Bio-Rad)
- TransPyloric Shuttle Implant – BAROnova
- Solar Power Wall Display Monitoring Unit – SunPower
- Laparoscopic Needle Driver – Novare Surgical Systems
- Blood Oxygen Sensor Handpiece – ViOptix
- Vascular Closure Device – Access Closure
- Cardiac Surgical Device – Medtronic
- Drug Delivery Devices – Alza Therapeutics
- Surgical Handpiece and Deployment Mechanism – SurX
- Wearable Blood Glucose Monitor – iSense
- Cardiac Surgical Stapler – Arbor Surgical Technologies
- Atrial Fibrillation Ablation Treatment Device – Guidant Cardiac Surgery

Also: Abbott Vascular, Accuray, AMES Technology, Aragon Surgical, Archus Orthopedics, Aspire Medical, Bass Medical, Datascope, Dolby Laboratories, Estech, Fox Hollow, Insound Medical, Intuity Medical, Jazz Pharmaceuticals, Laserscope, MagArray, Medical CV, Microreactor Technologies, Mizuho-OSI, Neovista, Satiety, Sound Innovations, Tau Science

XRADIA (now Carl Zeiss X-ray Microscopy), Concord, CA 2001 – 2003
Principal Product Development Engineer (R&D)

Led the design and mechanical engineering of the world's highest resolution photon microscope. Team winners of an 2003 R&D 100 Award: Nano XCT X-ray Imaging System.

OPIENT, Berkeley, CA 2000 – 2001
Principal Product Development Engineer (R&D)

Invention and engineering of an innovative electro-mechanical tunable fiber optic device.

HIEMSTRA PRODUCT DEVELOPMENT, San Francisco, CA 1999 – 2000
Principal Design Engineer

Added engineering capabilities and functions to the firm's industrial design services. Built and managed the engineering team. Engineering of hand-held medical devices, surgical instruments, and drug delivery devices. Determine product requirements, regulatory requirements, and challenges. Conceptualize solutions. Evaluate ergonomics. Guide industrial design development. Mechanism and enclosure design and engineering. Mechanical breadboarding. Plastic part and sheet metal design. 3D CAD solid modeling. Prototype fabrication, procurement, and assembly. Functional testing and evaluation. Also a contributor as a senior advisor and consulting engineer on most of the company's projects from 2003 through 2007.

WILD PLANET TOYS, San Francisco, CA 1998 - 1999
Engineering Manager

Direct development of multiple simultaneous projects with accelerated timelines. Managed and directed multiple resources including industrial designers, engineers, testing laboratories, and off-shore turn-key manufacturers.

RAININ INSTRUMENT COMPANY, Oakland, CA 1991 – 1998
Senior Project Engineer

Design and mechanical engineering of high-precision fluidics instruments & injection molded consumables. Managed multiple engineering and product development projects, including budgets and schedules. Invention and design engineering of high-volume sterile disposable products. Conceptualized tooling designs and served as a chief technical resource for the company's internal high-volume injection molding facility. Invention and design engineering of high-volume sterile and non-sterile thermoformed packaging. Sixteen US patents and numerous international patents granted for significant competitive product innovations including the market-leading LTS pipette tip design and SpaceSaver packaging.

INDUSTRIAL DESIGN AND MECHANICAL ENGINEERING CONSULTANT 1989 - 1991

- Chromatography Column – Sepragen
- Capillary Electrophoresis Instrument – Bio-Rad Laboratories
- Econosystem™ Peristaltic Pump – Bio-Rad Laboratories

THETA RESOURCES, San Francisco, CA 1986 - 1989
Industrial Designer, Mechanical Engineer, Project Manager

- Prosthetic Hip Implant – Zimmer
- Disposable Antibiotic Resistance Diagnostic Device – Abbott Laboratories
- Medical Vial Sealing Tool – Wheaton Scientific
- Arthroscopic Surgical System – American Edwards Laboratories

GORDON KELLY DESIGN, Elm Grove, WI 1982 - 1985
Industrial Designer