

Resumé of

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Career Highlights

- President / Design Engineer – Dexterity Design / Dexterity, Inc.:
Product design and engineering, prototyping, testing, and production services
- Founder – Acme Biosystems: R&D, design, management, and marketing of systems for 3-dimensional, high density, long-term culture of cells and tissues
- SolidWorks user since 1997 – skilled in basic modeling, surfacing, design for molding, sheet metal
- TekClip™ quick fastener – successfully conceived, prototyped, patented, marketed, and licensed product; licensed to MicroPlastics Inc.
- Manager—Miniature Implantable Drug Delivery Systems Project (funded by subsidiary of Merck Sharp & Dohme): average annual budget of \$350,000; two patents issued; responsible for technical development, personnel management, budgeting, scheduling, reporting
- Principal Investigator – National Institute of Health SBIR Grant Principle Investigator—Fibrous Substrates for Cell Culture: budget of \$70,000; device design and implementation, management & outsourcing, budgeting, scheduling, reporting

Technical Experience

DESIGN ENGINEER / PRODUCT DEVELOPMENT CONSULTANT Dexterity Design, Salt Lake City, Utah (www.dexteritydesign.com)

- Product design, engineering, prototyping, testing, and failure analysis
- Project management, business development, market and patent research, expert witness
- Focus on medical device, biotechnical, consumer, and recreational product sectors
- Selected Projects: Stem cell delivery device; PCR instrument optical subassembly; Bone fixation implant; Fluorescence immunoassay system; Headlice treatment system; Rugged portable timeclock; Lasic topographic measurement system; DNA hybridization wash station; LED- and laser-based phototherapy devices; Subclavian catheter pneumo-sealing system; Bevel-tip cardiac catheter; Cardiac catheter incision closure system; IV blood pressure transducer; Ergonomic analysis of ultrasonic probe; Ophthalmic iontophoretic drug delivery electrode; Micro-dermabrasion device; Cellulite reduction device; Misc device enclosures

FOUNDER / PRESIDENT

Acme Biosystems, Salt Lake City, Utah

- Invention and development of advanced mammalian cell culture systems
- Project management, market research, patent preparation
- Corporate management and strategic planning

PROJECT ENGINEER / BIOMATERIALS SPECIALIST

Center for Engineering Design, Salt Lake City, Utah

- Design, development, and testing of drug delivery and micro-electromechanical devices
- Technical writing and proposal preparation—\$25,000 to \$1.5 million funded
- Selected Projects: Fibrous membrane cell culture surfaces (PI), implantable logic controlled drug-delivery devices (PI), electret materials for micro-sensors and actuators, abdominal implant devices for insulin delivery, material selection and design consultation—robotics, biomedical, sensors

Education **Master of Engineering, Bioengineering**, University of Utah
Bachelor of Science, Materials Science & Engineering, University of Utah

Technical Scope

In Vitro Diagnostic Systems	Cardiovascular Devices	Ophthalmic Implants
Cell / Tissue Cultureware	Disposable Medical Products	Performance Apparel
Drug Delivery Systems	Dental Products	Micro-Mechanisms/Sensors
Percutaneous Access Devices	Device Enclosures	Catheter-Based Devices
Consumer Healthcare Products	Biomaterials Selection/Analysis	Sport Optics

Professional Skills

Project Management	Product Design	Surface Characterization
Proposal Preparation	Rapid Prototyping	Materials Selection
Budgeting & Scheduling	3D Solids CAD/CAE - SolidWorks	Failure Analysis
Patent Review and Preparation	Design Review	Surface Modification
Manufacturing Analysis	Market Review	Molding & Fabrication

Patents **20 Patents Awarded and Pending, including:**

- Cell Culture Apparatus and Associated Methods
- Airflow Applicators and Related Treatment Methods
- Reusable Fluid Pressure Transducer Monitoring Apparatus
- Method and System for Microdermabrasion and Suction Massage
- Detachable Clasp Fastener
- Waveguide Lens and Associatable Flow Cell (for immuno-diagnostics)
- Teeth Cleaning Implement with Integrated Fluid Dispenser
- Implantable Drug Delivery System with Piston Actuation
- Multiple Vesicle Implantable Drug Delivery System
- Control Barrier with Rotatable Legs

Legal Experience **9 Successful Cases as plaintiff and defense expert witness, including:**
Failure of eyeglass frame, Failure of embolic microspheres, Failure of heparin infusion pump,
Failure of penile prosthesis, Failure of custom hip implant, and Failure of night light

Document Generation **Over 75 documents and presentations successfully prepared and submitted, including:**
Proposals, technical reports, business plans, and publications

Awards & Affiliations

Intermountain Society of Inventors and Designers	Society of Plastics Engineers
Intermountain Biomedical Association	President, Utah Soc for Biomaterials Research

Additional Information

- Full curriculum vitae available upon request.
- Portfolio of projects can be viewed at www.dexteritydesign.com/html/portmain.html.
- LinkedIn profile: www.linkedin.com/in/ericmsimon1