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Professional Experience

2017 – Present

Self-Employed Consultant

2015 to 2017

Position

Cordis Corporation, a Cardinal Health Company

Senior QA Engineer – Part Time Consultant

2010 to 2015

Position

Cordis Corporation, a Johnson and Johnson Company

Senior Research Fellow – Causal, Part Time Employee

2008 to 2010

Position

PolyEngineer, LLC

Consultant and Sole Owner

Clients:

Gaumard Scientific, Inc.- Manufacturer of Medical Simulators

Sidley Austin, LLP- Law Firm

Johnson & Johnson- Medical Device Manufacturer

1996 to 2008

Positions

April 2001 – July 2008

June 1996 – April 2001

Cordis Corporation, a Johnson and Johnson Company

Senior Research Fellow

Engineering Fellow

1982 to 1996

Positions

June 1988 to June 1996

June 1985 to June 1988

July 1983 to April 1985

April 1982 to July 1983

Cordis Corporation

Principal Materials Engineer

Senior Manufacturing Engineer

Supervisor, Production Engineering

Manufacturing Engineer

Career Highlights

Mentoring

- Mentored scores of engineers who made significant contributions to the design and implementation of medical devices.
- Held leadership positions, managing the activities of up to ten engineers and technicians.

Process Engineering

- Experienced in all phases of small diameter medical extrusions. Specified equipment and implemented first use for Cordis of most of their polymer melt processes.
- Experienced in all phases of catheter manufacturing.
- Developed Cordis' first commercially successful angioplasty balloon blowing process. Process used for 35 years.
- Developed stent/balloon attachment methods, received the Philip B Hoffman Research Scientist Award.

- Implemented electropolishing process for cobalt-chrome alloys using chemicals of low toxicity.
- Involved in the most important process troubleshooting needs of the company.
- Interfaced with FDA inspectors during facility inspections and technical discussions.
- Well versed in polymer properties.

Design Experience

- Development of highly radiopaque soft tips for angiographic and guide catheters, Cordis Brite Tip® catheters.
- Introduced first use of several polymer chemistries to catheter construction. A variety of commercial products are based on these polymers including: Stent Delivery Systems, PTCA catheters, PTA catheters, coronary angiographic catheters, guide catheters and neurological catheters.
- Together with two other collaborators devised “semi-compliant balloon technology” that is used by all manufacturers of angioplasty balloons.
- Introduced multiple layer extrusions, used in the construction of several important products.
- Designed kink resistance shaft components for rapid exchange catheters. This design resulted in a rapid increase in sales over previous designs.
- Introduced new silicone materials and designs to medical simulator industry.

Education

1980 B.S. (Chemistry), Florida International University

1996 Certificate (Polymer Sciences and Processing), Virginia Polytechnic Institute

Major Awards

Johnson and Johnson Excellence in Science, 1996

Johnson and Johnson Philip B Hoffman Research Scientist Award, 2002

Non-Profit Board Membership

2009 to Present – President, Friends of the Florida Panther Refuge

This organization fulfills a mission of supporting the Florida Panther National Wildlife Refuge and continued survival of wild Florida panthers.