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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.