

## **DICK JOHNSON**

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### **OBJECTIVE**

Assist in quickly moving products from R&D to production.

### **SKILLS**

- o Optical systems- system/lens design, ray trace analysis, component selection.
- o Opto-mech design- mounts, fixtures, mechanisms, optical adhesives.
- o Biotech/biomedical, wafer process, fiber optics, telecom.
- o Shop-ready AUTOCAD or SolidWorks mechanical drawings.
- o Strong communications and people skills.

### **EXPERIENCE**

1992-present

#### **CONSULTANT**

Antioch Systems

Antioch Systems is an association of consultants that provides assistance in technical design and problem solving for optics-related systems.

Recent projects: fluorescent microscope, telecom gain equalizer, flow cytometer, tunable telecom laser, microtitre analysis, filmless x-ray viewer.

1986-1992

#### **VICE PRESIDENT, R & D**

JDS Uniphase Corporation

JDS Uniphase designs, manufactures, and markets telecommunications and OEM laser products.

Business segment expanded from \$1.5 M to over \$17 M and went from minor player to largest supplier in 4 years. Dr. Johnson's Major project was a family of OEM laser products with clear, competitive advantages.

Formed engineering group, which grew from a single employee to a team of 15 people including 2 PhD's. Developed second tier of management (project leaders and section leaders).

1984-1986

#### **DIRECTOR OF DEVELOPMENT**

Pindar Development Corporation

Start-up company that designed and prototyped an advanced, liquid-crystal, video projection system.

As one of the founders, staffed and organized engineering department. Developed specification of arc lamp power supply. Performed optical system design. Supervised creation of a process facility- RF sputtering vacuum chamber, thin-films coating chamber, and liquid crystal filling and sealing equipment.

(over)

1983-1984

**ENGINEERING MANAGER**

Cooper LaserSonics, Inc.

Cooper designed, manufactured, and marketed laser systems for medical and scientific applications.

Merged several small groups into one large, engineering group, which was responsible for the development of medical products involving argon, krypton, and excimer lasers as well as ultrasonic imaging devices.

1976-1983

**ENGINEERING DEPARTMENT MANAGER**

Spectra-Physics Corporation

Developed one of the first ultra-fast, pulsed laser systems for basic research. Products required maximum emphasis on reliability, manufacturability and cost control. Promoted to Engineering Manager, Component Laser Division. Implemented team building and motivational techniques in a department of 22 people.

1971-1976

**PROJECT LEADER**

Harris Corporation, Harris Government Systems Division, which performed R&D as well as prototype development as a prime and/or sub-contractor.

Led team and did system design of laser-based, high-resolution film recorder for high resolution imagery. Developed laser modulation system, which was one of the first commercial products of this division.

1969

Previous experience included summer employment at RCA's **David Sarnoff Research Laboratory**, Princeton, N.J.

**EDUCATION**

**Ph.D. Electrical Engineering**

University of Illinois, Urbana

Thesis title: The Application of a Mode-Locked Laser to Holography.

**M.S. Electrical Engineering**

University of Illinois, Urbana

Thesis title: Laser Beam Deflection Using a Photoelastic Material.

**B.S. Electrical Engineering**

University of Illinois, Urbana

**PUBLICATIONS AND PATENTS**

Authored or co-authored 12 technical publications and has served as chairman of technical sessions. Holds three U.S. Patents.

**SOCIETIES**

Optical Society of America, IEEE, American Vacuum Society, Professional and Technical Consultants Association (PATCA) (former director/officer), Society of Plastics Engineers, Eta Kappa Nu.