

**Herbert J. Deigl, Jr.**

**(772) 473-7672**  
**2870 Kirby Circle NE, Unit 9**  
**Palm Bay, FL 32905**

## **OBJECTIVE**

Seeking a position in laser electro-optics engineering where my unique background as a university teacher, a research and development scientist, and an entrepreneur will benefit your company.

## **WORK HISTORY**

- 1987 – Present**      **UNIVERSAL MEDICAL LASERS, INC.**, Palm Bay, Florida  
**President / Owner**  
Innovative marketing, sales, technical response, and technical training for this medical laser service firm led to its success. Seventy percent of revenue is generated from service contracts developed over the past ten years with major hospitals, surgery centers and private. Additional revenue generated is from per-call service fees and pre-owned equipment sales.
- Personal Areas of Development and Responsibility:**
- ◆ Created and produced promotional material for the sale of services and equipment
  - ◆ Organized, contracted and executed negotiations with medical facilities including hospitals, private physicians, ophthalmologists and medical equipment management companies for the servicing of medical lasers
  - ◆ Established and maintained a customer base, of annually contracted medical facilities, for the servicing of medical lasers
  - ◆ Reoccur training within the laser manufacturers and industry
  - ◆ Specializing in fiber optics delivery medical lasers
  - ◆ Hiring, training and overseeing technical representatives
  - ◆ Consultant for other independent and manufacturer laser repair companies (OEM)
- 1985 – 1987**      **ALLIED / SIGNAL CORP.**, Westlake Village, California  
**Research Scientist 1 / Lead Engineer** – Top Security Clearance, Department of Defense
- ◆ **NASA, Langley Research Center, Virginia**  
Laser for atmospheric oxygen monitoring parameters (\$1.5mil). Alexandrite lasing medium, the cavity is xenon pumped Q-switched with A-O device, employing 5-stage birefrigerant tuner for 2 picometer linewidth output, tunable from 730 nm to 790 nm @ 20mJ output level, 1-5 Hz computer controlled
  - ◆ **Jet Propulsion Laboratory, Los Angeles, California**  
250 mJ Q-switch tunable with 3-stage birefrigerant tuner, manually controlled (\$.5mil) by product of NASA Langley project
  - ◆ **United States Navy, Bremerton, Washington**  
Range gated tunable Alexandrite laser with all computer controls and receiving optics Necessary for completion of visualizing target (\$1.5mil) Original OEM idea
  - ◆ **Apollo Lasers, Los Angeles, California**  
Assisted in on-going effort to introduce new Ruby, Nd:YAG and Nd:HO or Nd:Er system for industrial or medical use
  - ◆ **Los Alamos National Labs, Los Alamos, New Mexico**  
High rate; high energy; very stable; line narrowed Q-switched system for isotope Separation (\$3.5mil) used for experimental studies

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**1975 – 1985**

**VINCENNES UNIVERSITY, Vincennes, Indiana**

**Laser Electro-Optical Technology (LEOT)**

**Assistant Professor, Department Chairman**

**Administrative Duties:**

Establish full program for this second ever LEOT in the United States. Developed curriculum, designed laboratories and classrooms, wrote lab exercises with performance based objectives, recruited staff, integrated program with all other relevant university academic and technical disciplines

**Theoretical classes taught:**

- Introduction to Laser Theory • Geometrical and Wave Optics • Laser Technology
- Laser Applications • Laser and Electro-Optical Measurements

**Technical Curriculum:**

Required major field courses taught theory and use of all laser equipment necessary for entry level technicians into research and development or industry

**EDUCATION**

**1982 –  
Graduated**

**UNIVERSITY OF EVANSVILLE, Evansville, Indiana**

**BSEE**

Emphasis in laser, optics, and Electro-Optics courses in Electrical Engineering

**1971 – 1975  
Graduated**

**TEXAS STATE TECHNICAL INSTITUTE, Waco, Texas**

**AAS**

Laser Electro-Optics Technology

**1985 – 1987**

**UNIVERSITY OF SOUTHERN CALIFORNIA, Los Angeles**

Various graduate courses in high energy physics

**Recurring**

**MEDICAL LASER MANUFACTURERS**

Technical training classes made available by:

- Coherent • CO2 Argon • Surgical SE CO2 • YAG • Surgical Laser Technology
- Trimedyne • YAG • Nd:YAG Certification courses included training on field service engineering to trouble shoot and repair medical laser equipment

**PUBLISHED ARTICLES**

“Where to find technicians with metallurgy training”

“Measuring ultra narrow line lasers <10pm”

“High rep rate Alexandrite for isotope separation”

Co-authored other papers and provided technical data while at Allied Signal Corp.

**REFERENCES – Available upon request**