

## Billy Wight, Luxon Engineering

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### EDUCATION

#### **University of California, San Diego**

September 2002 - September 2006

BS Mechanical Engineering

Cumulative GPA: 3.1

### EMPLOYMENT

#### **Luxon Engineering**

President and CEO, Design Engineer

January 2007 - Present

#### **PDG Oncore, Inc.**

Design Engineer

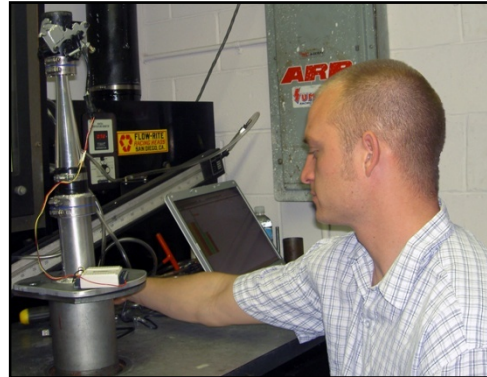
February 2007 – November 2007

#### **Cytori Therapeutics, Inc.**

Design Engineer

December 2004 - February 2007

- Product design, testing, and revision
- Tolerance analysis, GD&T
- CMM programmer, supervisor



#### **UCSD Engineering Machine Shop**

Machinist, T.A.

September 2003 - March 2005

- Supervised students
- Taught engineering machine shop classes

### ENGINEERING EXPERIENCE

#### **CAE/CAD/CAM:**

- SolidWorks, AutoCAD, AutoDesk Inventor, Pro/Engineer, Pro/Intralink, PDM Works, Pro/Mechanica, Altair HyperWorks Suite, Cosmos, Algor, MasterCAM, PC-DMIS, General finite element analysis and data acquisition

#### **Mechanical Inspection/GD&T:**

- Advanced programming and operation of coordinate measurement machines
- PC-DMIS CMM programming software
- General mechanical inspection
- Experienced with Geometric Dimensioning and Tolerancing
- Quality Training Solutions GD&T certification

#### **Fabrication:**

- CNC programming and operation, lathe, mill, band saw, drill press, etc.
- TIG, MIG, arc welding, oxy-acetylene, brazing/soldering, and plasma cutting
- Forging, sheet metal work, various hand tools, and electrical work.
- EPA Section 608 Type 1 Refrigerant Handling Certification

#### **Programming:**

- Working knowledge of C++, HTML, XHTML, Java, PC-DMIS, Matlab, LabVIEW, and Basic Stamp programming

#### **General Software:**

- Microsoft Office Suite, Microsoft Windows, Adobe Acrobat, Photoshop, Illustrator, etc.

#### **UCSD Formula SAE:**

Design Sub-lead and Fabrication Lead

November 2003 - August 2006

- Design, fabrication, and development of three vehicles
- Designed and fabricated multiple projects, developed leadership and teamwork skills

### PRIMARY SPECIALTIES

- Structural component design, analysis, and optimization via finite element methods
- Machine-design, mechanical design of assemblies
- Multi-body dynamics - analysis and optimization
- Machined part, sheet metal, weldment, injection molded, and plastic part design
- Design for manufacturability and assembly
- Automotive component design
- Geometric Dimensioning and Tolerancing, tolerance analysis

