

## Daniel J. Whittle, Ph.D.

### EMPLOYMENT EXPERIENCE

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#### **Vice-President, Technology**

2014 – *Tangible IP* *Seattle,*  
WA

- Providing technical and business analysis of patent portfolios in support of brokering and strategic planning.

#### **Consultant**

2003 – *Patent Leverage LLC* *Bellingham,*  
WA

- Providing patent portfolio technical valuations, prior art analyses for patent purchase due diligence, and technical and commercial development and technology business transaction consulting
- Working as a technical consultant and testifying expert witness in intellectual property litigation

#### **Senior Vice-President, Research & Development and Manufacturing**

2000 – 2003 *Oce Display Graphics Systems/Gretag Professional Imaging Division*  
*Bellingham, WA/Richmond,*  
BC

- Directed R&D and manufacturing teams from Raster Graphics at San Jose, Cymbolic Sciences at Richmond, BC, Anagraph at Costa Mesa/Carlsbad, CA and HK Productions in London, England.
- Led the development and manufacturing teams of the Arizona T220 flatbed inkjet, Arizona 500 solvent inkjet, LightJet 430 and LightJet 500XL wide-format digital printers.

#### **President and CEO**

1999 – 2000 *Cymbolic Sciences* *Bellingham, WA/Richmond,*  
BC

- Introduced a replacement wide-format laser printer with higher reliability, more than twice the performance and a 30% cost savings.
- Guided the development of a patented imaging technology which combined the advantages of the internal drum architecture with diode lasers

#### **Vice-President/Director, Product Development and Manufacturing**

1996 – 1999 *Cymbolic Sciences* *Bellingham, WA/Richmond,*  
BC

- Directed the design and manufacturing of the award-winning LightJet 5000 family laser photographic printer, PlateJet computer-to-plate imagers and Fire 9000 PCB mask imaging systems, and LightJet 2000 film recorders.

**Director of Engineering**

1994 –1996 *Firetrol, Inc.*  
NC

*Cary,*

- Managed a team that redesigned the entire electric fire pump controller product line gaining parts and cost reductions between 30 and 50%. This group was also responsible for custom electric and diesel pump controller design.
- Negotiated with GE to directly tap into internal sense signals in electronic circuit breakers thereby eliminating 3 expensive transducers with our custom control module.

**Senior Scientist/Engineer; Development Manager; Staff Engineer;**

**Senior Associate Engineer**

1982 –1994 *IBM Corporation*  
NC

*Research Triangle Park,*

- Held various technical and management positions in design and analysis of displays, LCD backlights, lasers, holography, touch panels, fiber optics, communication subsystems, notebook computer, advanced manufacturing, electronic packaging, image analysis, and electronic subsystem design.
- Managed a 2-person team that developed a piezo-resistive TrackPoint transducer for IBM notebook PCs.
- Developed an alternate area array chip carrier fabrication process for less than 1% of budgeted capital expense. This result led to responsibilities for process development and technology strategies for PC and LCD manufacturing at Research Triangle Park.
- Managed a short-distance fiber optical data transmission project and a patented power electronics project reducing parts cost by >50%.

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**AFFILIATIONS/PUBLICATIONS**

**Professional Societies and Registrations**

Registered United States Patent Agent

Member Intellectual Property Owners Association (Litigation Committee)

Senior Member Institute of Electrical & Electronic Engineers

Senior Member Society of Manufacturing Engineers

Member Optical Society of America

Member Society for Imaging Science and Technology

Member Technology Alliance Group for Northwest Washington

Member Washington State Patent Law Association

Registered Professional Engineer in North Carolina (inactive)

**Patents and Publications**

Coaxial cable terminal (US 5,078,619)

Edge-lit transfective non-emissive display with angled interface means on both sides of light conducting panel (US 5,339,179)

Three dimensional imaging system (US 5,822,042)

Apparatus and method for the enhanced imagewise exposure of a photosensitive material (US 6,262,825)

Flexible magnetic interconnects (US 8,187,006)

Flexible magnetic interconnects (US 8,491,312)

Modular lighting system and method employing loosely constrained magnetic structures (US 8,651,711 plus continuation US2014/0153265)

Interposer connectors with magnetic components (US9,300,081)

Construction set using plastic magnets (US2014/0227934)

Electrical rail systems with axially interleaved contact arrays (US9,303,854)

Suspended Track and Planar Electrode Systems and Methods (US2016/0327222)

Numerous Publications and Conference Presentations on Subjects Ranging from  
Concurrent Engineering and Automotive Tire Recycling to Radiation Damage and Non-Linear Optics

Defensive Publications on Invention Disclosures in Electronic Devices and Packaging, Projection Displays and Photomultiplier Tube Enhancements

#### **Organization Director Experience**

International Absorbents, Inc. (IAX on NYSE AMEX) Compensation (Chair) and Audit Committees

Licensing Executives Society Seattle Chapter Board

Interfaith Community Health Center (Board President/Treasurer)

4<sup>th</sup> Corner Consultants Roundtable (Program Chair)

Cymbolic Sciences

HK Productions (London, UK)

IBM Corporate Advanced Engineering Manufacturing Council

Management Development Incorporated (non-profit at Kenan-Flagler Business School)

Technical Monitor to the Integrated Manufacturing Systems Engineering Institute at North Carolina State University

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#### **EXPERT WITNESS**

**Leggett & Platt, Inc. v. VUTEk, Inc., No. 4:05 CV 788, (E.D. Mo.)** Engaged by defendant as an expert witness on UV inkjet printing technology. Testified at the Markman hearing and wrote reports regarding validity of asserted patent (US 6,755,518) claims.

**VUTEk, Inc. v. Leggett & Platt, Inc., No. 4:07 CV 1886 (E.D. Mo.)** Deposed as a 30(b)(6) witness on the factual bases for VUTEk's motion for summary judgment of invalidity and unenforceability of L&P's US 7,290,874 patent (a continuation of the application which became US 6,755,518). Also wrote a rebuttal technical expert witness report and was deposed.

**Whetstone Electronics, LLC v. Epson America, Inc. et.al., No. 6:08 CV 00317 (E.D. TX.);** Assisted with claim term construction in Whetstone's 6,618,157 and 6,337,746 patents on behalf of joint defendants.

**John Mezzalingua Associates, Inc. (d/b/a PPC) v. Pace Electronics, Inc., No. 0:10 CV 0064 (Mn.); John Mezzalingua Associates, Inc. (d/b/a PPC) v. Perfect 10 Antenna Company, No. 0:10 CV 0781 (Mn.);** Wrote a technical report including infringement and validity analyses of PPC's 7,118,416 patent on behalf of joint defendants.

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**Gerber Scientific International, Inc. v. Roland DGA Corporation, and Roland DG Corporation, No. 3:06 CV 02024 (Cn.);** Wrote a rebuttal expert report on infringement of Gerber's 5,537,135 digital printer/cutter patent and was deposed.

**PCT International, Inc. v. Holland Electronics, LLC, No. 2:12 CV 01797 (Az.);** Wrote a technical report on the validity of PCT's 6,042,422 connector patent, an infringement rebuttal report and a non-infringing alternatives report, was deposed and testified at trial.

Provided technical consulting on other cases, but not named as a testifying expert.

#### **EDUCATION**

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Ph.D. in Physics, University of Pennsylvania (Non-linear optical spectroscopy) 1982

B.S. in Physics (Summa Cum Laude), Lebanon Valley College 1976

Program for Technology Managers, Kenan-Flagler Business School, University of North Carolina at Chapel Hill 1992

LES Intermediate Intellectual Asset Management Course 2007