

Zane Coleman

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OPTICAL CONSULTANT & PATENT STRATEGY CONSULTANT

PROFILE

- LED Lighting Technology and Patent Expert
- Inventor on 24 issued patents, Inventor on 40+ pending patent applications
- Expertise and analytical skills for optical and physical product analysis
- Broad experience directing intellectual property strategy for companies ranging from large to start-up
- Track record of protecting innovation through patent drafting, patent prosecution, and competitive technology analysis in order to achieve focused technology and patent strategy goals
- USPTO Registered Patent Agent # 65754

EMPLOYMENT

- Phostech* **President** 2009 – Present
- Optical consulting
 - Patent strategy & drafting services
- Fusion Optix Inc.* **VP Technology & Dir. of Technology** 2006-2009
- Led the research strategy and transfer of technology to product engineering in a fast paced small company providing innovation in the display and LED lighting industries
- Developed technology roadmaps, intellectual property strategy, & competitive benchmarking
 - Invented more than 35 unique, patentable products and drafted & prosecuted 60+ patent applications
 - Managed the R&D of optical films, LED backlights, and LED light fixture projects
 - Co-developed the optical system of a Lightfair 2009 Innovation Award-winning light fixture
- Manager, Optical Engineering** 2005-2006
- Developed and prototyped micro-replicated, multi-functional optical films for displays and light fixtures through optical modeling, prototyping, analysis, and specification
 - Analyzed the optical properties of 100+ polymers, and the effects of film extrusion
 - Designed, installed, and managed optical film, LED backlight and light fixture characterization lab
 - Led polymer based optical film research including production and optical characterization
- Phostech* **President** 2003-2005
- Optical design & analysis of diffusing films, refractive-TIR films, projection screens & systems, LCD backlights, lightguides, signs, head-up displays and light fixtures
 - Invented new optical films, projection screens, backlights and displays (drafted 8 patent applications)
- Motorola Labs* **Senior Physicist** 1997-2002
- Optically designed & constructed world's first personal micro-projector (US Patent 6,637,896)
 - Designed reflection and transmission micro-structured optical films for LCDs
 - Designed and developed 3 new optical film products with suppliers, including an optical film with 3M which was shipped in over 100 million cellular phones
 - 12 extensive technology evaluations with detailed display measurements & new measurement techniques
 - 4 issued Patents, 26 patent disclosures
- ImEdge Technology Inc.* **Optical Engineer** 1993-1997
- Conducted research for a start-up company developing holographic illumination technology
 - Co-invented new methods for recording edge-lit holograms and edge-lit devices for display and biometric applications (7 issued patents)

EDUCATION

Ph.D. in Physics, Loughborough University (UK)

Applied rigorous coupled wave diffraction theory to model and analyze recorded edge-lit holograms

Thesis: *Modern Holographic Recording and Analysis Techniques Applied to Edge-Lit Holograms and their Applications* (1997)

BSc. in Applied Physics, Certificate in Optics, Georgia Institute of Technology (1992)