



Larry Boxler

Professional Experience

2024-Present Sr. Staff Optical Engineer
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- 2005-2007 Optical Engineer, Breault Research
- 1999-2005 Optical Engineer, Valeo Sylvania
- 1996-1999 Program Manager, Ford Motor Company
- 1994-1996 Injection Molding Process Engineer, Ford Motor Company
- 1991-1994 Lighting Engineer, Ford Motor Company

Education

1991 B.S. Degree in Optical Engineering, Rose Hulman Institute of Technology

Larry Boxler is an accomplished Optical Engineer with extensive experience in optical component design, analysis, and testing. He excels in customizing applications and performing advanced analysis through scripting. His expertise spans a wide range of optical systems, including illumination devices, LCD projector components, lidar systems, and stray light control. Additionally, Larry has significant experience with the injection molding of plastic optical components and their radiometric and photometric performance testing in laboratory settings.

Professionally, Larry has developed and verified optical models for various systems, led optical component design, simulation, and testing initiatives, and supported production processes. He has also contributed to software development for optical engineering applications, enhancing tools used for non-imaging optical design and stray light analysis. His roles have seen him lead projects from initial concept through to production, ensuring designs meet stringent performance and manufacturability requirements.



Patents

Varying Color of LED Light Using Metamers

Apparatus and method for pathway or similar lighting

Apparatus, method, and system for highly controlled light distribution using multiple light sources

Apparatus, method, and system for independent aiming and cutoff steps in illuminating a target area

Apparatus, system, and method for aiming LED modules

Compact LED light source and lighting system

Method, system and apparatus for highly controlled light distribution from light fixture using multiple light sources (LEDS)

Providing, measuring and demonstrating highly effective uplighting

Single lens for LED signal light

Variable spot size lenses and lighting systems

Publications

Larry Boxler "Optical design and lighting application of an LED-based sports lighting system", Proc. SPIE 8123,