



John R. Rogers, Ph.D.

Professional Experience

2022-Present	Synopsys Scientist/Imaging, Synopsys
2010-2022	Principal Engineer/Imaging, Synopsys
2005-2010	Principal Engineer/Imaging, Optical Research Associates
2001-2005	Director, Photonic and Imaging Engineering Services, Optical Research Associates
1997-2001	Assistant Director of Optical Engineering Services, Optical Research Associates
1991-1997	Optical Engineer, Leica AG
1989-1991	Head, Optical Design and Metrology, Leica Aarau (formerly Kern and Co. AG)
1988-1989	Optical Designer, Leica AG (formerly Wild Leitz AG)
1984-1988	Assistant Professor, Institute of Optics, University of Rochester
1983-1984	Optical Designer, Kern C 1976 B.S. Degree in Mathematics, Virginia Polytechnic Institute

Dr. Rogers is experienced in optical design from the conceptual stage through assembly and alignment. He has designed and toleranced such diverse systems as 3D imaging for clinical dental use, ophthalmic surgical systems, biocular and binocular systems, FLIR systems, head-up and helmet-

Patents

US 12,228,754	Electronic Structure For Representing Freeform Optical Surfaces In Optical Design Software
US 11,803, 051	Freeform Optical Surface and Method of Forming a Freeform Optical Surface
US 9,367,648	Specification-guided user interface for optical design systems
US 8,842,272 B2	Apparatus for EUV imaging and methods of using same
US 7,360,899 B2	Beamsplitting structures and methods in optical systems
US 7,230,766 B2	Optical Combiner Designs and Head Mounted Displays
US 7,196,849	Apparatus and methods for illuminating optical surfaces
US 6,612,693	Panoramic reverse Galilean telescope optics for an underwater diving mask
US 6,337,765 B1	Stereomicroscope
US 6,297,497	Method and device for determining the direction in which an object is located
US 6,069,733 A	Stereomicroscope
US 6,043,890 A	Arrangement for Determining the Position of a Surgical Microscope
US 5,953,114	Method of determining measurement-point position data and device for measuring the magnification of an optical beam path
US 5, 841,149	Method of Determining the Distance of a Feature of an Object from a Microscope, and a Device for

D. Buralli, G. M. Morris, and J. R. Rogers, "Optical Performance of Holographic Kinoforms," *Applied Optics* 28, 5, 976, (1989).

D. Buralli and J. R. Rogers, "Some Fundamental Limitations of Achromatic Holographic Systems," *Journal of the Optical Society of America* 6, 1863, (1989).

J. R. Rogers, M. Harrigan and R. Loce,