



## J. Michael Rodgers, Ph.D.

### Professional Experience

2010-present	Principal Engineer/Optical Design, Synopsys
2000-2010	Principal Engineer/Optical Design, Optical Research Associates
1999-2000	Engineering Fellow, Raytheon Electronic Systems, El Segundo, CA
1997-1999	Principal Engineer/Optical Design, Optical Research Associates
1990-1996	

### Education

1984	Ph.D. Degree in Optical Sciences, University of Arizona
1980	B.S. Degree in Physics, Stanford University

Mr. Rodgers' experience is primarily in the areas of the design, analysis, and tolerancing of optical systems. Some of his fabricated designs include refractive relay and projection lenses for CRT, laser, and light valve sources, anamorphic laser scanning lenses, dome projection lenses exceeding 180° field of view, visible and IR band lenses for detector testing, variable magnification beam expanders for IR and visible wavelength lasers, helmet mounted night vision optics, copy lenses for graphic arts, astronomical telescope optics, null lenses, high speed optical disk objectives and laser diode collimators, a star tracker, catadioptric grating spectrometer, head display lens, and cinema projection lenses. A significant fraction of his recent and ongoing work is in support of specialized advanced programs, conducted on-site at the customers' facilities, which has led to successfully fabricated optics.

Having been involved in numerous projects at ORA and Synopsys requiring reflective configurations, he has developed a variety of obscured and unobscured reflective designs for potential use in x-lithography, sensor testing, and ultraviolet through IR band imaging. He has developed and documented user

1985 NASA Tech Brief, "Manufacture of a Reflecting Slit Optical Element" (author).

1983 NASA Tech Brief, "Addition to Triple Reflecting Schmidt-Cassegrain Prism Imaging Spectrometer" (co-author)

1983 SPIE Scholarship in Optical Engineering

## Patents



“Blue channel of the Keck low

Patents

US 9548286

## Professional Societies

Member Society of PhotoOptical Instrumentation Engineers (SPIE)  
Member Optica  
Member Illumination Engineering Society (IESNA)  
Member Society of Automotive Engineers (SAE)  
Member CIE