

# Jason G. Zeibel

jason@zeibel.com  
270-17 Colonnade Drive \* Charlottesville, Virginia 22903 \* (434) 970-2233

---

## OBJECTIVE

A position in research and development of laser technology or related field.

## SUMMARY

I will be defending my Ph.D. thesis in December, 2002. I am good at critical thinking and very knowledgeable with laser technology and computer systems. I am seeking a job doing interesting research or engineering, possibly in the optics or laser science area.

## EDUCATION

<b>Ph.D. in Physics</b> , University of Virginia, Charlottesville, Virginia	December 2002
THESIS: <i>Manipulating Wavepacket Dynamics with Half Cycle Pulses</i>	
<b>M.A. in Physics</b> , University of Virginia, Charlottesville, Virginia	2001
<b>B.S. in Mathematics and Physics</b> , Cum Laude, Duke University, Durham, North Carolina	1997

## EXPERIENCE

<b>RESEARCH ASSISTANT</b> – University of Virginia – Physics Department	1997 - present
Designed and carried out a number of research projects involving laser, vacuum, and electrical systems. Wrote computer code to perform simulations of each experiment. Performed maintenance on a Ti:Sapphire short pulse laser system. Gained experience in basic metalworking. Delivered several presentations on completed research.	
<b>TEACHING ASSISTANT</b> – University of Virginia and Duke University – Physics Departments	1996 – 1998
Led multiple discussion sections for majors and non-majors with groups of 15 to 25 students. Prepared graded examinations for students. Held office hours open to students from a number of classes several times weekly.	
<b>RESEARCH ASSISTANT</b> - Triangle Universities Nuclear Laboratory, Durham, North Carolina	1996 - 1997
Refurbished a detector for an intermediate energy nuclear physics experiment. Designed and built coincidence electronics for the detector. Collaborated with seven other individuals to take experimental data for 150 continuous hours every six weeks.	
<b>TECHNICIAN</b> - Applied CD Technologies, Inc., Charlotte, North Carolina	1994 - 1995
Performed prepress layout with Adobe Photoshop and Quark XPress. Scanned film, performed color correction and image restoration. Assisted with sales and marketing. Gave presentations to customers.	

## PUBLICATIONS

J.G. Zeibel, S.N. Pisharody, and R.R. Jones, “*Effect of Impulsive Transient Electric fields on Autoionization*,” submitted, Phys. Rev. A (2002).  
J.G. Zeibel and R.R. Jones, “*Centrifugal Electron-Ion Recombination*,” Phys. Rev. Lett. **89**, 093204 (2002).  
J.G. Zeibel and R.R. Jones, “*Radial Rydberg Wavepacket Maps*,” J. Phys. B. **34**, 1213 (2001).  
S.N. Pisharody, J.G. Zeibel, and R. R. Jones, “*Imaging Atomic Stark Spectra*,” Phys. Rev. A. **61**, 063405 (2000).

## SKILLS

Extensive knowledge of ultrafast laser operation and terahertz pulse generation  
Programming ability in C, C++  
Experience with Apple, Microsoft, and UNIX computer platforms  
Proficient with Adobe Photoshop, Mathematica, Matlab, LaTeX, Microsoft Word, Excel, and PowerPoint  
Licensed Amateur Radio Operator, Amateur Extra Class, KD4MML  
Proficient in Spanish, Familiar with Italian

## HONORS

Eagle Scout  
University of Virginia Society of Fellows  
1<sup>st</sup> prize; 2001 UVA Physics Dept. Graduate Research Competition  
Resident Advisor’s Scholarship, Duke University  
North Carolina Young Numismatist of the Year

## AFFILIATIONS

Optical Society of America  
American Physical Society  
The Virginia Pep Band, Tenor Saxophone  
Boy Scouts of America, K2BSA  
American Numismatic Association