



## Serge Minin, Ph.D.

Technical Specialist

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As a technical specialist at the firm, Serge Minin, Ph.D. assists in prosecuting patents for clients in the electrical and software technology industries. His advanced education and industry experience provide extensive knowledge in the areas of electronics, lasers, optics, instrumentation, communications and signal processing.

### Practices

- Patent Prosecution

### Industries

- Electrical & Computer Technologies

### Background and Credentials

Serge received his Ph.D., M.S., and B.S. degrees in electrical engineering from the University of Illinois, Urbana-Champaign. After receiving his M.S., he spent several years working in industry developing imaging systems as well as optoelectronic devices for telecommunication applications. Serge made research contributions in the fields of optoelectronic devices, optical remote sensing, and medical imaging. After obtaining his Ph.D., he was a member of the teaching faculty at the University of Illinois, Urbana-Champaign where he developed and taught courses relating to electronics, digital communication systems, and wireless communication. Prior to joining Marshall Gerstein, Serge led a Data Analytics initiative for an R&D Department of a Fortune 500 company.

## Education

- University of Illinois, Urbana-Champaign (Ph.D.)
  - Electrical Engineering
- University of Illinois, Urbana-Champaign (M.S.)
  - Electrical Engineering
- University of Illinois, Urbana-Champaign (B.S.)
  - Electrical Engineering

## Publications and Presentations

December 2009

**“Uncertainties in extracted parameters of a Gaussian emission line profile with continuum background”**

*Applied Optics* 48(36): pp. 6913-6922

2009

**“Some highlights from Fabry-Perot measurements of H- $\alpha$  emissions at Arecibo Observatory during geomagnetic storms”**

*CEDAR Workshop, Santa Fe, NM*

2008

**“Alignment of a remote all-sky triple-etalon Doppler imaging system”**

*CEDAR Workshop, Midway, UT*

February 2007

**“Artifact Reduction with Back-Interpolated Gridding (BIG) Reconstruction”**

*ISMRM Workshop on Non-Cartesian MRI, Sedona, AZ*

February 2006

**“Demonstration of Mode Conversion in an Irregular Waveguide”**

*Optics Letters* 31(3): pp. 383-385

Jan.-Feb. 2005

**“Tunable optical group delay in an active waveguide semiconductor resonator”**

*IEEE Journal of Selected Topics in Quantum Electronics* 11(1): pp. 197-203

April 2004

**“Current-controlled group delay using a semiconductor Fabry-Perot amplifier”**

*Applied Physics Letters*, 84(17): pp. 3238-3240