



## David Franklin Sawrie Ph.D.

Of Counsel

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David Sawrie brings an extensive knowledge base and working background in the areas of applied mathematics, computer science, and electrical engineering.

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David is a member of our intellectual property group where he focuses his practice on patent law. He has experience in electrical engineering, applied mathematics, and computer science. David uses this knowledge to help clients design and execute their patent roadmaps. He assists clients in all industries, with a particular focus in electrical arts, mechanical devices, and medical devices. He handles IP issues in a broad range of technologies which include: digital signal processing; electrical circuits; mobile devices; database-backed web applications; operating systems; wireless networks; encryption; machine learning; fraud analytics; global positioning systems.

During his doctoral training, he worked as a scientist in the arena of health care outcomes research. David conducted statistical analyses and provided data management support in clinical trials ranging from small sample studies to a large multicenter phase III clinical trial. His dissertation addressed new approaches to issues of power analysis in small sample studies through novel applications of sample size re-estimation methods.

David received his B.A. from the University of Virginia, his M.A. from Stanford University, his J.D. from Vanderbilt University Law School, and his Ph.D. and B.S.E.E. from the University of Alabama at Birmingham. He also holds a master's degree in German Studies from Stanford University. He has studied abroad at the Albert-Ludwigs-Universität in Freiburg in the Southern Black Forest, and he is fluent in German.

### Patent Prosecution and Analysis

- artificial intelligence
- digital signal processing
- electrical circuits
- mobile device memory management
- firm over the air mobile device updates
- cloud based bring your own device solutions
- database backed web applications
- gesture based operating systems
- wireless networks
- file differencing
- web/electronic interfaces
- encryption
- fraud analytics
- global positioning systems
- medical devices
- wireless networks



## Publications

- "Assignment Documents Now Publicly Available Through USPTO Website," *IAM Weekly International Reports* (September 2016)



## Education

- University of Alabama at Birmingham, B.S.E.E., 2010
- University of Alabama at Birmingham, Ph.D. (Biostatistics), 2007
- Vanderbilt University School of Law, J.D., 1999
- Stanford University, M.A., 1995
- University of Virginia, B.A., 1992



## Admissions

- California, 2002
- Tennessee, 1999
- U.S. Patent and Trademark Office, 2012