

Michael Abernethy

Chief Technology Officer

Optimal Auctions, Inc.

Michael Abernethy is the Chief Technology Officer for Optimal Auctions, Inc. He has over 15 years of experience in the software and technology field, with over 5 years in the auction software industry. His specialties in the software industry include user interface design and web application security. Prior to his time at Optimal Auctions, Michael worked at IBM as a Team Lead, managing the release and deployment of the security aspect of IBM's WebSphere Application Server.

Mr. Abernethy has taken part in dozens of auctions in the spectrum, energy, and commodities sectors. Examples in the spectrum field include Sweden, Finland, Denmark, and Thailand. In the energy sector, New Jersey BGS, Pennsylvania Penelec, and Spain's Comisión Nacional de Energía. In the commodity sector, Rio Tinto's rough diamond auctions.

Mr. Abernethy is responsible for running the technical aspects of the company on a day-to-day basis. He leads SEO and Google AdWords campaign marketing and the sales team to find new projects and revenue sources. Technologically, he is responsible for programming all complicated aspects of the product's code base, as well as managing a small team for additional coding and testing of the product. Additionally, he is responsible for customer support, including defect tracking, feature requests, and competitive analysis.

Mr. Abernethy has the educational background required to serve in the auction software industry: a BA in Computer Science and a BA in Economics from Duke University, and an MBA in Finance from the University of Texas-Austin.

Additionally, Michael is a well-known writer in the technical industry, publishing frequent technical articles on user interface design. He is also an IBM Master Inventor, with 19 patents filed in the software and technology fields with the United States Patent Office.

Education

University of Texas-Austin, United States

MBA (summa cum laude), Finance, 2008

Duke University, United States

BA (cum laude) Computer Science, Economics, 2000

Professional Experience

2007 - **Optimal Auctions**
Chief Technology Officer

2000 - 2007 **IBM**
Team Lead

Selected Project Experience

- Project manager, technical lead, and software lead for the auction of rough diamonds for Rio Tinto Diamonds (2012 - ongoing)
- Technical and software lead providing practice auction software to an undisclosed bidder in UK's Ofcom 4G spectrum auction (2013)
- Technical and software lead providing practice auction software to an undisclosed bidder in Australia's ACMA 4G spectrum auction (2013)
- Technical and software lead providing practice auction software to an undisclosed bidder in Finland's FICORA 4G spectrum auction (2013)
- Technical and software lead for the annual energy auctions for New Jersey's Electric Distribution Companies PSE&G, JCP&L, Atlantic City EC, and Rockland EC (2008 - ongoing)
- Technical and software lead providing practice auction software to an undisclosed bidder in Ireland's 4G spectrum auction (2012)
- Technical and software lead for the quarterly sales of Solar Renewable Energy Credits in New Jersey (2009 - ongoing)
- Technical and software lead providing practice auction software to an undisclosed bidder in Spain's 4G spectrum auction (2011)
- Technical and software lead for the auction of spectrum in the 1800MHz band for Sweden's PTS (2011)
- Technical and software lead for the quarterly energy auctions for Pennsylvania's Metropolitan Edison Company, Pennsylvania Electric Company, and Pennsylvania Power Company (2008 - 2012)
- Technical and software lead for the auction of spectrum in the 410-430MHz band for Denmark's NITA (2010)
- Technical and software lead for the auction of spectrum in the 900MHz and 1800MHz bands for Denmark's NITA (2010)
- Technical and software lead for the auction of spectrum in the 3G spectrum for Thailand's NTC (2010)
- Technical and software lead for the auction of spectrum in the 2.5GHz spectrum for Finland's FICORA (2009)
- Technical and software lead for the auction of spectrum in the 3.6-3.8GHz spectrum for Sweden's PTS (2007)

Publications

- Introduction and Advanced jQuery
An 8 article series on jQuery that dealt with all issues of advanced user interface design. Over 250,000 total page views on the article series.
- Data Mining With Weka
Detailed articles on how to use and integrate Weka, a Java-based data mining tool
- Advanced Java Swing
Multiple topics in advanced user interface design in web applications

Patents

- Method for closed captioning of audio video content on a portable playback device
USPTO #7,508,45
- Method and process for enabling advertising via landmark based directions
USPTO #7,689,355
- System and method for fine grain method update of an application
USPTO #7,779,402
- Method and apparatus for improving cluster performance through minimization of variation
USPTO #7,783,747
- System and method for identifying asset restrictions applicable to movement
USPTO #7,792,165
- Providing a social network aware input dictionary
USPTO #7,827,165
- System and method of informing users of changes in geographically bound rules
USPTO #7,844,647
- Method of refactoring methods within an application
USPTO 7,856,626
- Detecting interruptions in audio conversations and conferences
USPTO #7,881,234
- System and method for providing sticky applications
USPTO #7,925,988
- Using photographic images as a search attribute
USPTO #7,978,937
- Mirroring of conversation stubs
USPTO #7,991,128
- Operations on document components filtered via text attributes
USPTO #7,996,768
- Collaboration widgets with user-modal voting preference
USPTO #8,108,780
- Providing shared tasks amongst a plurality of individuals
USPTO #8,141,078

- Providing shared tasks amongst a plurality of individuals
USPTO #8,156,497
- Accepting a user's selection of sort options for sorting a table
USPTO #8,161,405
- Modifying an appearance of a vehicle based on content of the vehicle
USPTO #8,188,845
- Restoration of conversation stub for recognized experts
USPTO #8,234,289