



resume

# John Boere

revision November 2014

## Executive Summary:

Engineer with 22 years of Geospatial Database design and development experience and 13 years of web development experience. Founder of 2 successful startups.

- Back- and front end software engineering: PHP, Javascript, MySQL, Oracle, Oracle Spatial, Lucene, REST.
- Electrical engineering: load analysis, phase balancing, power quality
- Founded 2 startups, partnered at 2 more.
- Subject matter expert in the electrical utility & telecom industry.
- Geospatial (GIS) experience since 1991: GE Smallworld GIS, Google Earth/Maps
- Financial trading systems: futures, options & currency trading

I like to engineer and build stuff that is high quality, fun to use and nice to look at. I never sacrifice performance. I can also solve a Rubiks cube.

## If you need me for web development

Expertise both on the back- and front end. This includes MySQL, PHP, Javascript, AJAX, jQuery/AJAX, REST, frameworks etc. I consider data modeling & performance improvements one of my specialties.

One project was at Armezzilla, a startup aimed at military veterans. I implemented a search engine based on **Lucene**, I implemented a privacy module to control user content. Also worked on **data mining**, **SEO** and **Google Earth API**.





## **If you need me for GE Smallworld GIS development**

Experience since 1991. I have worked for over a dozen clients in Europe and the USA. This includes building GIS systems from scratch, customizing, migrating or simply upgrading. I will bring my own set of (software) tools to the project to enhance, improve or diagnose potential problems in the clients applications. I'm mostly familiar with **Smallworld CST, PNI, FME** and **Oracle spatial**.

My most recent project is Elmar on Aruba. I implemented **REST web services** and an **API** to integrate mapping data from Smallworld into **Google Earth** and **Google Maps**.

## **What GE (General Electric) said during the 2009 Smallworld Americas User conference:**

With 19 years of GE Smallworld experience, John is widely seen as a Smallworld expert. He is currently founder and CEO of Cliffhanger Inc., a startup company that offers innovative ways of making the most of your (Smallworld) GIS investment. John has architected and implemented over a dozen of GIS systems in 5 countries. Current and former clients include Deutsche Telekom (T-Mobile, T-Systems) and SRP (Salt River Project). John has a degree in Electrical Engineering and has also implemented GIS systems in water, gas and telecommunications.





# About Me

Name: John Boere  
Date of birth: July 26<sup>th</sup> 1967  
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LinkedIn: <http://www.linkedin.com/in/johnboere>  
Family: I live in Chandler AZ with my wife and 3 sons  
(2005, 2008 & 2011)

## Education

- 1985-1989 Electrical Engineering (Bachelor Science)
- 1985-1989 Industrial Automation (minor)
- 1990 NIMA-A (Marketing, minor)

## Career

- 1989 Intern ASEA Brown Boveri (ABB)
- 1990-1991 Software Engineer HCS Industrial Automation B.V.
- 1991-1997 Consultant CMG Telecomm. & Utilities
- 1997-2000 Principal Consultant GeoData Solutions, Inc.
- 1999-2005 Founder/CEO Night-Trading.com
- 2000-2003 Contractor CCI (Computer Consultants Intl.)
- 2004-2007 Principal / Team Lead SRP Salt River Project
- 2007-now Self Employed Cliffhanger Solutions Inc.



# Clients

1991	Water,Power,Gas,Telco	CMG (now Logica)
1991	Water, Gas	Gelsenwasser & NGW, Duisburg, Deutschland
1992-1994	Water	WMN (LIS), Utrecht, The Netherlands
1992	Water	Rijkswaterstaat (CROW), Dutch government
1992	Telecom	SEP (Pilot), The Netherlands
1993	Power	Energie Delfland (ATLAS), Delft, Netherlands
1993-1994	Water	PWN (LIS), The Netherlands
1994	Gas	GZO (DIS), Zeist, The Netherlands
1994	Power	Southern Electric (Audit), Slough, UK
1995	Telecom	Deutsche Telekom MEGAPLAN 1, Germany
1995	Power	Manweb (CGIS), Chester, UK
1995-1996	Power	Copenhagen Energy (Denmark)
1996-1997	Telecom	Deutsche Telekom, MEGAPLAN 2, Germany
1997-1998	Telecom	Bell Commnications Research, New Jersey, USA
1998-2001	Power, Telecom	Salt River Project, Arizona, USA
2002-2003	Sabbatical	
2004-2010	Power, Telecom	Salt River Project, Phoenix, Arizona, USA
2007-2010	Power	TEP, Tucson Electric Power, Tucson, AZ, USA
2010	Telecom	T-Mobile, Germany
2010-2011	Telecom	AboveNet, UK/USA
2011	Power/Telecom	SRP, Phoenix, AZ
2011	Power	TEP, Tucson, AZ
2011	Internet	ArmedZilla, Scottsdale, AZ
2012	Internet	SocialDial, San Jose, CA
2012-now	Power/Telecom	SRP, Phoenix, AZ
2011-now	Power	Elmar, Aruba
2012-now	Power	Bangor Hydro Electric Co, Maine, USA



# Speaker

I have given presentations at many conferences on a variety of GIS related topics. Recent topics include:

- “Extreme high availability for your GIS”
- “Cloud computing using Smallworld”
- “Smallworld data on a Sony PSP -Why?”
- “Background Maps: Create, Import or Connect?”

Mar-91 AM/FM Arnhem, the Netherlands

Mar-92 AM/FM Groningen, the Netherlands

Mar-93 AM/FM Veldhoven, the Netherlands

Oct-93 AM/FM Europe Strasbourg, France

Nov-93 GIS Nordics, Norway

Mar-94 AM/FM Maastricht, the Netherlands

Mar-95 AM/FM Rotterdam, the Netherlands

Mar-07 GITA, San Antonio TX

Oct-08 GE Smallworld Americas User Conference, Phoenix AZ

Sep-11 GE Smallworld Americas User Conference, Chicago IL

Feb-14 GE Software Summit, Orlando FL

May-14 GE European Software Summit, Rotterdam, Netherlands





# Technical

- Smallworld GIS development experience since 1991 (1.9.4 and up)
- Process control (SCADA, Robotics)
- Webservices since 2007

## Languages:

**Fluent in:** English, Dutch, Magik, MySQL, PHP, Javascript

**Proficient in:** German, Java, Oracle

**Moderate:** French, C, VB, Python

## Operating systems:

While not a system admin, I am proficient in managing systems, writing (shell) scripts etc, I have worked with:

- UNIX (DEC OSF OPEN & Ultrix, SUN Solaris, IBM AIX, HP)
- Windows
- VMS
- Linux
- Mac OS X

## Web:

- **Frameworks:** CodeIgniter, FuelPHP, Cordova
- **Plugins:** jQuery/Ajax, Bootstrap, Knockout, Stripe, Modernizr, Sprockets
- **Editors/IDE:** Emacs, Eclipse
- **Databases:** MySQL, sqLite, ElasticSearch, MongoDB
- **Source Code Management:** git, deployHQ, github, gulp





# Sample of Client Projects

## Salt River Project

Salt River Project (SRP) is an electricity and water utility in the Phoenix, AZ area. Within the IT department GIS applications are being developed based on Smallworld GIS, ESRI and Oracle Spatial

**Lead developer** in an application for planning and design of the electricity distribution network. This includes load optimization, power flows, capacitor placement and load balancing

**Lead developer** in an application for cable replacement planning as well as wood pole inspection. Both are part of preventive maintenance. Developed a cross platform interface between the customer information database, the distribution network GIS and the land base GIS to produce ready to use management information reports for budgetary planning

**Team Lead** for the GIS services group responsibilities include:

- \* Supervising and mentoring a team of 10 full time GIS developers
- \* Recruitment of new team members and contractors
- \* Budget planning
- \* GIS related architecture decisions
- \* Managing a variety of GIS projects. This currently includes upgrading from 3.1/3.3 to 4.0/4.1





## Deutsche Telekom (T-Mobile/T-Home)

The MEGAPLAN 2 project involves data capture of all maps all over Germany. Totally this will result in a over 8 terabyte database and 8000 man-years of data capture. To handle these dimensions all aspects of implementing the Smallworld GIS must be carefully considered.

Therefor an international team of experienced people was put together.

Design of (107\*50GB) database. The database is believed to be the largest Smallworld database in the world. A mixed Windows NT and HP-UX environment is used. Analysis and development of Smallworld GIS applications:

- Database Design of universes, worlds, drawing priorities
- Conversion of existing Smallworld databases to new design
- Customizing the database extractor to be used by external data-capture centers.
- Designed & implemented a mechanism for unique key allocation. Unlike standard Smallworld UVA's in this module keys can be reused and can have any user defined format.
- Various performance improvements

Responsible for: Design of module 'Database & Integration'.

## København Belysningsvæsen (Copenhagen Energy)

Copenhagen Energy is responsible for the electricity, gas and heating in the city of Copenhagen, Denmark.

Involved in: design and implementation of electricity data capture module.







## Manweb, Chester UK

CGIS (Corporate GIS) is a system for automated mapping and facilities management for 9 districts around Liverpool and the north of Wales. It is based on Smallworld GIS and consists of the following subsystems:

Maintenance, Scheme design, Power system analysis, Services, Substation internals, System diagrams. Involved in:

- design (analysis, data modeling) and development (programming) of a module called system diagrams. This provides a fully automatic generation of schematic maps out of the geographic oriented maps
- system administration
- project management

## Night-Trading.com

Founder and Chief Editor of Night-Trading.com, a financial services website for currency and advanced options strategies.

- Ranked in the top 10 of most visited financial website in the Netherlands and Belgium.
- Interviewed on RTL-Z.
- Featured in Stocks & Commodities.
- Sold in 2004 to wallstreetweb.nl

## ArmedZilla / Taking Point

ArmedZilla is a social media platform aimed at military veterans. As the Senior Engineer of a team of 5 I was responsible for:

- Back-end development: PHP, MySQL, CodeIgniter framework
- Front-end development: Javascript, AJAX, JQuery, HTML, CSS
- Search engine implementation: Elasticsearch [Lucene]
- Privacy implementation
- Releases/rollouts
- Data modeling, MySQL, Elasticsearch
- Site/DB admin





## CrowdCall & SoapBoxCity

Crowdcall & Soapbox city are part of SocialDial. Both applications are implementing conference calling using mobile devices and web browsers. A team of 3 engineers are developing the web application portion of the product. As a Senior engineer I'm responsible for:

- Developing the business model
- Design & planning
- Back-end development: PHP, MySQL, FuelPHP framework
- Front-end development: Javascript, Knockout.js, jQuery, Bootstrap
- Some webdesign

## ELMAR (Aruba)

ELMAR is a small power distribution company on the island of Aruba. ELMAR's desire was to share data from their GIS system with SETAR, the local telecom company.

- Developed a webservices API for accessing their pole and cable locations
- Implemented tools to share data using Google Earth (KML) and Google Maps.
- Developed a web application for real time acces of Elmars network infrastructure. PHP, Javascript, HTML, CSS, CodeIgniter framework, sqLite, ElasticSearch, Google Maps, Open Street Maps, Magik
- Software Upgrades from older GE Smallworld GIS versions (3.3) to latest (4.0, 4.1, 4.2, 4.3)

