

# Christopher John Reay

# Curriculum Vitae

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## Background

I am a business strategy consultant. I have my strong background in computer science, ranging from extensive programming, process-modelling and database design to web sites built for advertising. I give presentations and training workshops. I have worked voluntarily in the 3rd sector, teaching various styles of communication technology, including: Consensus Building; NVC. I work in various circles on a local community level.

## Skills Overview

- Business Process Requirements Extraction/Design/Implementation
- Training
  - Systems Architecture
  - Usability
  - Long Term Business Development Strategy
  - Intra-Departmental Communication
- B2B Partnership as a strategy
- Business Image Strategy
- Design Collaboration
- Peer Directed Market Development
- Expert (20+ years) Programming Languages: Python, All Web Technologies, Java

# Formal Engagements

## Directorships / Business Portfolio

*December 2010::2016 - Director - ThisEquals Ltd*

**ThisEquals** is a consultancy focussed on the presentation of complex digital information. We create high impact, dynamic info-graphics and other visualisations for the business environment. These can be used in-house, for marketing, or e.g. by the NHS to improve engagement with information about health.

- Systems Design
  - Data processing pipeline
    - High availability architecture
    - Python
    - Abstraction of complex systems (equations or linked data mostly)
  - Data visualisation pipeline
    - Bootstrap
    - Proprietary client side templating language
    - High efficiency javascript
- Visualisation Design
  - Create visceral impact on users when displaying complex data sets.
- Sales and Marketing Consultancy
  - Business development.

**VisualTools** is an open source, open-pipeline which exposes much of the core software used by ThisEquals. Currently in Beta, we hope to promote interesting and powerful uses by the general public, of digital visualisation of complex data. The Visual Tools pipeline combines next generation python data acquisition and analytics system with an array of cutting edge javascript interface tools.

[https://github.com/christopherreay/thisEqualsThat\\_frontEnd](https://github.com/christopherreay/thisEqualsThat_frontEnd) // <https://production.freefreecrowdfunding.org>

*November 2011::2014 - Director - The ITOSDA / Nordic IT*

[www.itosda.org](http://www.itosda.org) // [www.cloudsecurityevent.com](http://www.cloudsecurityevent.com) // [www.nordicitsourcing.com](http://www.nordicitsourcing.com) // <http://nordicit.org/>

**The ITOSDA** (Now NordicIT) is a member driven professional association of C-Level executives in Scandinavia. Our members are some 200 C-Level decision makers from some of the largest, most forward thinking companies in the World. We promote communication and research at the highest level across the Europe and the U.S.

- Corporate Strategy
  - Modern outsourcing techniques. Cloud and Mobile security strategies
- Collaboration Technology
  - Mostly in terms of training for individuals that are part of the purchasing / SLA chain
- Peer Directed Market Development

*December 2013::2014 - Founder - Earth-Ways Crowdfunding Platform - "own time"*

<https://www.earth-ways.com> // <https://www.freefreecrowdfunding.org>

**Earth-Ways** is a crowdfunding platform on offer to ethical and environmentally aware projects. We charge 0% commission and self-fund the site and accept donations. Our team is led by Ludwig Appeltans, a permaculture teachers of 15 years, and his <http://www.earth-ways.co.uk> membership of some 2000 interested individuals.

- Consultancy
- Software Development

*July 2010::2014 Contract/5% stakeholding - Now Websites - "own time"*

- Drupal and proprietary, python based scraping technology

*1996::2005 - Director - Inward Investment Europe Ltd. / FDI Online Ltd*

**IIE/FDI Ltd.** was a pioneer in supplying primary sourced business information to C-Level and Boardroom executives. Our format was taken over by UNCTAD, the UN Business Briefing after a long standing relationship with the big four consultancy firms and the EU central library services.

### Achievements

- Development of all in house sales CRM and business reporting systems (MS Access)
- Development of innovative CMS, based on integration of MS Access and MS Word (-> pdf -> print)
- Development of web portal for content access (pre web2.0)

## Freelance Portfolio

- November 2011::March 2012 - [www.campamentosthefarm.com](http://www.campamentosthefarm.com)  
Online Learning Platform (Drupal) creation and consultancy, Project Oversight and Delivery
- March-2009::May-2009 - [www.ravido.com](http://www.ravido.com)  
custom social network to promote clubbing in Pakistan
- Sep-2007::Jan-2008 - Consultant Developer - Madrid - Resume
- July-2007::Sep2007 - Contract - [aero-craft.org](http://aero-craft.org)
- Sep-2006::March-2007 - Contract - The Media Company Publications Ltd.
- May-2006::July-2006 - Contract - Hurache record label, Devon, England
- Feb-2006::April-2006 - Contract – Cricket Scotland, Scotland

## Employment History

- May-2008 – July 2008 - Atlas Services SA – Barcelona  
Consultancy: Requirements extraction, design, implementation of J2EE, mission critical application providing a bi-directional bridge between up and downstream issue tracking services
- August 2008::November 2008 - QUADIS Group, Barcelona  
(largest car dealership Cataluña)  
Mission critical J2EE application providing fully, bi-directional issue filing and tracking bridge service between upstream (JIRA) and downstream (various supplier) issue tracking services

## Technical Skill List

<ul style="list-style-type: none"><li>• Expert<ul style="list-style-type: none"><li>○ Python / IPython</li><li>○ EMCA 6, 5</li><li>○ Node.js</li><li>○ CSS3</li><li>○ Responsive Web Design / Bootstrap</li><li>○ Design Patterns for Agile Development</li><li>○ JUnit / testharness.js / pybuilder</li><li>○ Java / Spring / Hibernate</li><li>○ Inter Process Communication</li><li>○ SQL</li><li>○ Unix Administration</li><li>○ Git / github</li><li>○ InDesign, Photoshop</li><li>○ Drupal / Wordpress Plugin Development / PHP</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Familiar<ul style="list-style-type: none"><li>○ Web and Internet Security</li><li>○ Mongo DB</li><li>○ Keystone (node.js cms)</li><li>○ Assembly Language</li><li>○ C / C++</li><li>○ Flash</li><li>○ IT Hardware Maintenance</li></ul></li></ul>
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## Education

*University of Edinburgh 1999-2004 Computer Science and Artificial Intelligence (Bsc Hons):*

- CS Modules including algorithm design and analysis, formal programming language semantics and java modules
- AI Modules including dimension reduction, neuroscience, linguistics, inductive reasoning
- Mathematics Modules including matrices, calculus, induction.
- Thesis: design and exploration of a dynamic programming interface.

*A-Levels at Royal Grammar School High Wycombe:*

- Maths, Physics, Computer Science and Philosophy

## Informal Study

- Language
  - Spanish (conversational), French (conversational)
- Sedona, NVC, CC
- Collaboration Techniques
  - Circle Way
  - Consensus Building
  - Sociocracy (<http://sociocracyconsulting.com/>)
- Programming Language Design
- Buddhism, Meditation, Psychology
- Music- Playing guitar/ piano/ singing
- Drama / Performance Art
- Physical
  - Team sports
  - Yoga
- Human Centric Technology

# CV in Depth

## FDI Online / Inward Investment Europe

Working with C-level executives from corporations such as Arthur Andersen, Price Waterhouse Coopers, HSBC, Glaxo-Wellcome, et. al, I spearheaded one of the first web based tools providing business information for strategic decision making at a multinational level. Having developed a bespoke, in-house administration platform and reduced my own workload to almost zero, as well as providing minute by minute indicators to a (somewhat incredulous, but very forthcoming with feedback) sales team, I was able to reengineer the content of the platform into a semi formal language, which aided comprehension and comparison. The product format was later purchased by the United Nations. I coined the phrase “Common Statistical Base”.

## University

My self defined thesis earned me 93% in my final year. I have developed broad scale innovations in pure computer science, making significant inroads into the von Neumann bottleneck problem, applicable to pervasive parallelism research. Apart from quantum and light based architectures, this is the single most important problem in computer science today.

## Blue IT

Having been dropped in the deep end, working on site for a Catalan client, with no Spanish, I quickly learned I needed to communicate with my team through formal means, setting up 20 minute, daily reviews of yesterday’s work. In combination with the project owner, within two weeks we had a specification drawn up to improve efficiency. Over the next 3 months, I rolled out an update of their Java based web application system to a Plone based system with bespoke components, which allowed much of the workload to be shifted out of the IT department and onto local stakeholders. This was done in a I left their team with a culture of daily meetings, whilst their informal, team role structure persists :).

## Atlas AB

Working on a mission critical, bilateral ticket synchronisation system (both companies served the clients of the other company, using different ticketing systems). I purified their Java code base, creating an earthquake grade interim persistence mechanism, and upselling to include a plugins toolkit which covered all imagined eventualities without tinkering with my code base. My favourite part of the project was discovering a critical bug based on the round trip time from their slow, old server. I worked directly with the Managing Director and the CIO, who had quite opposing views on the money vs. value question.

## Refugee Camp in Calais

Having arrived to live on site in December 2014 it quickly became clear that the volunteer staff who were the intermediaries between the refugees and the government were woefully unqualified and unprepared for the job. Over 6 weeks I became an integral part of the community meetings, and after writing the script for the visit of the judge in charge of the eviction case, I was invited to join the 8 individuals who are the community leaders of the 5000 or so people living on the camp. Through translators I was able to convey something of the European political system and practicable application of rights, and restructured the flow of information and decision making (and crucially perceived responsibility) to cut out the volunteers. I am credited directly with the formulation of the plan which was eventually negotiated directly between the refugees and the council, and accepted by all parties in response to the eviction proceedings. In all likelihood this avoided loss of life. Further negotiations have taken place within the structure I encouraged, and results have seen a marked improvement.

## ITOSDA / Nordic IT

“Award winning innovation through collaboration of decision makers”

Having spent some time training in conflict resolution and the mechanics of interpersonal bandwidth, I designed a unique and innovative conferencing model C-Level executives. As the IT industry surges forward and corporate IT is left dragging its heels behind consumer IT (various factors, including legal and security issues), CIO’s are left with the unenviable task of presenting a forward looking plan. As IT has grown from being a support mechanism to being an end in its self, this job has become more and more challenging. At the multinational level, there are simply no accepted solutions to these issues. As service suppliers fall over each other trying to tell us what we want to hear, whilst simultaneously creating buyer lock-in, it is to each other that CIO’s must turn for the fundamentals.

Our conference baseline events are Outsourcing; and Cloud & Mobile Security, where it behoves all companies (especially in Scandinavia, due to lack of staffing and extremely tight consumer protection laws) to cooperate to develop effective, modern protocols in these areas. There is a specific tightness of client communication and operations which is required to foster a sense of collaboration between people, and Nordic IT has been heralded as one of the most effective tools for C-Level IT in Europe.

Of the many lessons learned in this fascinating arena, I am pleased that my commitment to human communication techniques has been able to contribute at the highest level.

## **ThisEquals**

“To deliver socially relevant data to the general public, with a visceral, AhaH, moment”

ThisEquals combines my cutting edge data acquisition techniques (bringing under one format linked data and systems of equations with automatic dependency analysis), with dynamic 2.5d and 3d infographics. From education to the NHS to pollution and emissions data, we are able to manifest these abstract ideas into perceptions and feelings upon which people are more readily able to act. Currently with a remote team in France, Russia, Bristol and Scotland, we work in sprints. As the Project Owner I am proud of the attention we are getting from the NHS in Bristol, various renewable energy companies and street collection agencies for charities.

Working directly with teachers I have developed a 1 year project to deliver tools to create a social network to support teachers in developing lesson tools for the curriculum, as well as to assist in the transfer of lesson plans from curriculum to curriculum every several years.

visual.tools is a sister project which open sources part of the ThisEquals codebase, and provides a full stack pipeline, from data acquisition to presentation, upon which to develop high engagement visualisation tools. We released our alpha test some 2 months ago. The project has been running in my spare time for 5 years.