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# PETER-JOHN R. LIGHTFOOT

Programmer, Architect, Solutionist

I am a lateral thinker with a passion for creating solutions. I continually strive to develop my skill set by keeping abreast of current trends and industry best practices. I have regularly demonstrated the capacity to deliver software that exceed company- and client expectations, primarily because I appreciate and understand the impact that early design decisions have on the scalability, extensibility and maintainability of a product in the long term. I am a self-starter with strong leadership qualities and enthusiasm for empowering people. I am equally effective working independently without supervision, or participating in a team environment. In practice I have a compelling preference for domain driven design and agile development methodologies.

## AREAS OF EXPERTISE

- Highly Proficient Coding with C# and the .Net Framework
- Highly Skilled Domain Modelling
- Fluent in OOD- (Object Oriented Design) and SOA (Service Oriented Architecture) Principles
- Application- and Database Architecture, -Planning and -Design
- Requirements Analysis and Resource Planning
- ALM (Application Lifecycle Management)
- Testing and Troubleshooting
- Team Leadership

## QUALIFICATIONS

- **National Diploma: Electrical Engineering (Aviation Technology)** **Jan 1994 - Jun 1997**  
Tshwane University of Technology  
Avionics, Digital Systems, Mathematics, Electrical Engineering, Electronics, Project Management, Radar, Radio Engineering, Television, Electronic Communication, Control Systems, Projects, Physics, Communication skills, Computer skills
- **Senior Certificate (Grade 12)** **Jan 1983 - Dec 1993**

## CONTACT DETAILS

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## LANGUAGES

	Verbal	Written
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# CAREER HIGHLIGHTS

## SOLUTION ARCHITECTURE (PERESYS)

- › Completed thorough analysis of existing solution, codebase, development- and deployment processes, and support infrastructure; Identified and exposed shortfalls in solution architecture and development practices; Negotiated the acceptance and adoption of contemporary methodologies and updated technology; Raised awareness of industry trends and best practices, and supported team members through their transition.
- › **Significantly enhanced team productivity.**
- › Average Build-and-deploy wait time reduced from 120 minutes to less than 10 minutes.
- › **Notably improved the application stability in both development- and deployed environments.**

## FIX PROCESSOR (PERESYS)

- › Enables business- and support functions to configure instruction customisations by capturing business rules as XML directives.
- › **Completely eliminated developer sprint interruptions for client-specific instruction customisations.**
- › Fast processing and transformations in FIX message pipeline.

## DYNAMICS CRM LIBRARY (IS PARTNERS)

- › Base library wraps the Dynamics CRM SDK functionality in a consistent object model, providing more efficient maintenance and support, lesser learning curve for new developers, and standardisation.
- › Enables true xRM development on the Dynamics platform.
- › **Considerably reduced customisation time for xRM projects.**
- › C# Library, WCF Service Layer, Silverlight front-end components.
- › Generates code from a CRM schema, using best-practice ORM standards such as lazy-loaded collections, caching, multi-user concurrency, etc.

## GENERIC WEB APPLICATION FRAMEWORK (DELOITTE)

- › Includes common components, helpers, and utilities used often within the environment.
- › **Notably decreased development costs on a typical client project.**
- › MVP (Model-View-Presenter), AJAX, Enterprise Library Data Component, ASP.Net Membership Model, Active Directory, single sign-on, logging, licensing, encryption, compression, session context, page context, and invisible query strings, etc.
- › Emulated web server allows unit testing of web application logic.

## AUTOMATED DEPLOYMENT TOOL (DELOITTE)

- › Identified the (manual) deployment process as the biggest unmanaged risk to development resources. Negotiated, architected, planned and delivered the automation of this critical process.
- › **Entirely negated the (non-billable) requirement for developers to attend client upgrades.**
- › Centralised application-, client- and license management. Integrated issue-tracking system with direct client access.

## MINE OPTIMISATION TOOL (CYEST)

- › Graphical user interface allowing drag-and-drop design of teams, mining activities and their inter-dependent relationships and constraints.
- › **Drastically shortened model- or scenario configuration time.** Typical scenario modelling time was reduced from several weeks to only a few hours.
- › Gantt-chart look-and-feel, reminiscent of Microsoft Project, fosters user comfort through familiarity.
- › Real-time manipulation at a crucial level of granularity facilitates immediate visual response when operational parameters are changed.

## MODELLING TOOL (CYEST)

- › Object-oriented enterprise model representing the company's value chain from production inputs to bottom-line outputs in the form of Income- and Balance Sheets.
- › Configurable entity relationships and value chain formulae allow a single analyst to quickly set up a prototype model for a prospective new client.
- › **Radically lowered enterprise model prototyping costs.**
- › Object-oriented, symbolic linking, text formulae, fully configurable, scenario management, scenario comparison, bulk data import, automatic/manual calculation modes.
- › Flexible projection mechanics through selectable graph functions (step-change, linear change, function change, etc.), that can be applied to projections of future values for chosen operational inputs.

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# PROFESSIONAL HISTORY

Since the start of my career as a professional software developer in 1998, I've been successfully involved in most configurations of industry, organisation type, project type, and team structure; and have always been able to add value. I have valuable experience in a client-facing capacity and I'm very capable of handling a high level of pressure with dedication and without a drop in performance. Most of my knowledge of software development and application lifecycle management has been learned through self-study, research, team collaboration and thorough experience. I'm able to pick up new technologies with ease and confidence, and I'm accomplished in leading development teams and providing mentorship, support and training.

## OCT 2010 – CURRENT

Iress Ltd. / Peresys (Pty) Ltd. (Financial Trading)

**Lead Developer / .Net Solution Architect (Permanent)**

Iress is an Australia-listed multi-national provider of Financial Trading Solutions and Business Network Infrastructure. Peresys, as the market leader in South Africa, was acquired by Iress in the first quarter of 2011.

When company restructuring resulted in the loss of all but two members of the original product development team (including myself), I stepped in to be instrumental in getting a new team off the ground whilst continuing the maintenance and development of a large production system. In order to do so efficiently, I effectively increased the scope of my role by assuming ownership of the product at a technical level.

Having successfully established a team and greatly enhanced production capacity as compared to previous levels, senior management has now assigned me to a Solution Architecture capacity, whereby my primary focus is continued improvement of the codebase, reduction of technical debt, and further integration with Iress codebase, systems and procedures.

- › Produced a critical analysis of existing solution.
- › Support, maintain and enhance the legacy codebase.
- › Interview candidates; Guide and mentor newly appointed team members.
- › Developed and implemented: Code- and style standards; Code- and process migration to Team Foundation Server; Customised TFS Work Item Types and -Workflow; Automation of customised TFS build process; Automated deployment tools; Framework base classes to enable improved solution design and formal design for product components.

## APR 2009 - OCT 2010

IS Partners (Pty) Ltd. (CRM Consulting)

**Senior Developer / .Net Architect (Permanent)**

IS Partners is a Microsoft Gold Certified provider of Business Intelligence-, Knowledge Management-, and Customer Relationship Management systems.

I was designated "Senior on Site" with a team of 8 that pulled through the largest project the company had had in the CRM space to date. During the process, we developed and established the company methodologies for CRM projects going forward, and we pioneered several tools and procedures that will optimise future development projects. I also had the great pleasure and privilege to work very closely with a former MVP, from whom I learned a tremendous amount, and whom I still collaborate with regularly.

- Designed and coded a library that wraps the standard Dynamics CRM SDK functionality in a consistent object model.
- Designed and coded a Dynamics CRM Schema Generator that creates C# objects for CRM entities.
- Developed automation of build- and deployment procedures.
- Designed and coded a CRM schema synchronisation tool.

## JAN 2008 - MAR 2009

Deloitte & Touche Tohmatsu (Tax Management Consulting)

**Senior Developer / .Net Architect (Contractor)**

Tax Management Consulting is a development department supplying both internal- and external clients.

Following an initial short client project for Immigration Consulting (a Deloitte internal client), I took on the establishment of proper and appropriate procedures, practices and methodologies that would help ensure future project success without the traditional over-exertion.

- Designed and coded an Automated Deployment Tool for centralised management of Client Application Distribution.
- Designed and coded a set of commonly used development components to promote standardisation and code re-use.
- Designed and coded a Generic Web Application Framework.
- Introduced development tools such as ReSharper, and motivated a switch to newer technologies like .Net 3/3.5 and Visual Studio 2008.
- Assisted with the implementation and team adoption of the above.

## NOV 2004 - DEC 2007

Cyest Corporation (Pty) Ltd. (Information Technology)

**Senior Developer (Permanent)**

Cyest Corporation is a leading-edge value-adding solution provider in Sandton. They specialise in complex, tailored, high-end solutions and analysis to a wide range of industries and clients.

During my time at Cyest, I worked on three projects as Lead Developer. I was responsible for system design, application architecture and development.

- Designed and built a UI-intensive, real-time scheduling tool for mine planning and -budgeting.
- Developed a complex, data-intensive application that is used to capture contracts, and interfaces with the existing (SAP) ERP system to ultimately calculate and report on the royalties due.
- Designed and built an Excel/VBA-based modeller for mining operations in the North-West Province. My solution was uniquely object-oriented, and allows a Business Analyst to design a model using symbols and pseudo formulae.

## MAY 2003 - MAY 2004

Performance Solutions Ltd. (Telecommunications)  
Auckland, NZ

### Developer (Permanent)

- › Active Web-based Configuration Utility
- › Advanced Encrypted Licensing Components
- › Integrated Outlook Interface

## SEP 2001 - APRIL 2003

Absa Bank Ltd. (Contact Centre Solutions, Absa Direct)

### Developer (Permanent)

- › Development Procedures-, Methodologies- and Standards
- › Technical Documentation Templates
- › XML, .NET Framework, Visual Studio .NET, Oracle
- › Presented development workshops to team members.

## JUN 2001 - AUG 2001

National Data Systems (Consulting)

### Developer (Contractor)

- › Data Interface Library
- › Maintenance Utilities
- › Documentation

## AUG 2000 - FEB 2001

SoftVu, cc. (Consulting)

### Developer (Contractor)

- › Web (ASP) Front-end
- › Visual Basic (COM+) Middle-tier
- › Stored Procedures on MS-SQL Back-end

## APR 2000 - JUL 2000

Gothic City Systems, cc. (Software Development)

### Developer (Entrepreneur)

- › Garden Services Management Desktop Application (VB6 & Access)

## AUG 1998 - MAR 2000

Acuity Group (Pty) Ltd. / Knowledge Management Consultants, cc. (Consulting)

Johannesburg, ZA / Pensacola, FL

### Developer (Permanent)

- › Presented in-house training courses to peers.
- › Claims Management System
- › Investment Solutions Pricing System
- › Recovery and Repair of Corrupted Database
- › Toll Gate Processing System

## JUL 1997 - JUL 1998

Image Training Services, cc. (Education and Training)

### Training Consultant (Permanent)

- › Presented Training Courses
- › Compiled and Authored Course Material

## JUL 1996 - JUN 1997

Computer Adaptations, cc. (Computer Hardware)

### Customer Engineer (Permanent)

The company supplies computers for blind and visually impaired users.

- › Installation and Maintenance
- › Workshop Management and Reporting
- › Provision of Technical Training
- › Customer Support

## ADDITIONAL PROJECTS

During periods when I was between contracts, I continued developing my skill set by engaging in voluntary work or playful learning projects.

- › Developed a multi-node networked (client/server) Angling Competition Scoring System for local non-profit NGO EkoCare.
- › Assisted the primary school in a disadvantaged rural community with standard IT infrastructure maintenance and some graphic design work.
- › Full-screen analogue clock
- › Mathematical formula parser and graph plotter
- › 3D model animation screen-saver

## PROFICIENT

- › Domain Driven Design..... 1998 - Current
- › Requirements Analysis..... 1998 - Current
- › C# / .Net / BCL ..... 2005 - Current
- › MS-SQL..... 1999 - Current
- › ASP / ASP.Net..... 2000 - Current
- › XAML / WPF / Silverlight ..... 2009 - Current
- › ADO / ADO.Net ..... 1998 - Current
- › Web Services, WCF ..... 2008 - Current
- › LINQ ..... 2008 - Current
- › RegEx ..... 2005 - Current
- › WinForms..... 1998 – Latent

## EXPERIENCED

- › Team Leadership ..... 2004 - Current
- › Project Management..... 2004 - Current
- › Client Relationship Management ..... 1998 - Current
- › SCRUM ..... 2009 - Current
- › TDD..... 2003 - Current
- › JavaScript / CSS..... 2000 - Current
- › XML / XSLT ..... 2005 - Current
- › Office Interop ..... 1998 - Latent
- › Dynamics CRM..... 2009 – Latent

## CURSORY / INTERMITTENT

- › ASP.Net MVC ..... 2011
- › Entity Framework..... 2008
- › Enterprise Library ..... 2005
- › UML..... 2005

## TOOLS AND OTHER UNRATED TECHNOLOGIES

- › Internet Information Server, Apache
- › Team Foundation Server, Mercurial, Subversion, Visual SourceSafe
- › WinDbg, ProcessExplorer, Profiler, DotTrace, Fiddler, ReSharper, DevExpress
- › Visual Studio Test Framework, N-Unit, Microsoft Moles, Rhino Mocks
- › Windows, Outlook, Excel, Word, Access, PowerPoint, Visio, Internet Explorer, Chrome, FireFox, Acrobat Professional, Photoshop, 3DS Max, Maya
- › Enterprise Architect, Visual Basic .NET, Visual Basic 6.0, VB for Applications, VB Script, Visual C++ .NET, Visual C++ 6.0, Oracle 7/8.1.7, MySQL

## PRIORITIES IN THE WORKPLACE

- › Respect and Acknowledgement
- › Competency and Efficiency
- › Determination and Perseverance
- › Spontaneity and Cheerfulness

## GENERAL ACTIVITIES / HOBBIES

- › Reading and Writing
- › Playing Guitar
- › Photography
- › Gaming
- › Programming (What can I say, I love it)

## CLOSING NOTE

Please feel free to visit my blog at [pj.lightfoot.cc](http://pj.lightfoot.cc) where I endeavour to give back to the community whenever I have some spare time. The "Contact Details" page there has all my instant messaging info, along with links to most of my networking profiles.

I sincerely appreciate your time and consideration.

Thank you,  
Peter-John