

# Michael Clive Gibson

## Resume

Nationality: Australian/British	www.gibsonactuarial.com
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### **Key Strengths**

- Strong technical skills – excellent understanding of actuarial mathematics and statistics, as well as strong skills in a large number of software systems and computer languages,
- Achieved high level proficiency in the use of Microsoft Excel (including Visual Basic), Microsoft Word, Lotus Notes, Microsoft Access, Cognos, SQL, @Risk, MoSes, Mo.net and Prophet
- Communication – ability to comfortably communicate very well with all levels of management, a wide variety of types, both internal and external to a company
- Teamwork skills – strong ability to work as part of a team, particularly a team composed of both actuarial and non-actuarial people.
- Intermediate people and team management skills
- Intermediate project management skills
- Ability to research and present information in a timely and efficient manner

### **Professional Associations and Education:**

2002 Associate of the Institute of Actuaries of Australia`

1993 Bachelor of Science in Mathematical Statistics, The University of Queensland

### **Career History:**

#### **April 2016 – July 2016 Lombard International Insurance (Luxembourg), Actuary**

- Building and Testing Automated Solvency II Reporting Templates in Access/Excel to map into Invoce
- Building Solvency II Look Through Development in Access/Excel
- Developing the EIOPA validation tests for the Solvency II Reporting Templates using Access/VBA
- Documentation and testing of the above

***Personal break to recover from a cycling accident. I have made a full recovery and have medical documentation to support this.***

#### **Jan 2012 – June 2012 Axa Sun Life Direct (UK), Prophet Developer**

- Developed Pricing Models to calculate IRR, NBV etc in Prophet for new products. Documentation and testing thereof.
- Trained staff in Prophet, both group sessions and one-to-one.
- Library: Conventional

#### **Sept 2011 – Dec 2011 MGM (UK), Solvency II Systems Actuary**

- Wrote specifications for various components of the Solvency II Modeling System, e.g. the database that will store the valuation data and results.
- Tested components of the Solvency II modeling system e.g. the model to perform the Solvency II cashflow calculations. Built a test spreadsheet. Documentation thereof.
- Developed a DCS program to prepare model point files for Prophet.

#### **Jan 2011 – Apr 2011 Co-operative Financial Services (UK), Operational Risk Framework Specialist Advisor**

- Developed an Operational Risk Model based on AMA using Excel, VBA and @Risk for Solvency II Capital Requirement purposes. Documentation thereof.

## ***Personal Break to care for my ill father in Australia***

### **Oct 2009 – April 2010      Legal and General (UK), Product Modeling Actuary**

- Developed Prophet Model for new product.
- Developed Controlling spreadsheet for above model. This spreadsheet can run the model, store and export model point files and tables, and goal seek across a block of business. The spreadsheet is fully automated using VBA, Prophet API etc
- Testing and Documentation of the model and controlling spreadsheet
- Reviewing Prophet and Excel Models programmed by colleagues
- Assisting/training staff with programming problems, particularly in Access and Prophet.
- Libraries: V Unit

### **April 2009 – Aug 2009      Hartford Life Limited (UK), Actuarial Modeling Lead**

- Streamlined a spreadsheet for model point production
- Managed an actuarial trainee, assigning him tasks and training him in model development

### **Sept 2008 – Dec 2008      Reliance Mutual (UK), Mo.net Developer**

- Developed Linked and Non-Linked Benefits Sub-models for the Reliance Mutual Office Model in Mo.net. Testing and Documentation thereof.
- Developed Reinsurance Sub-model for the Reliance Mutual Office Model in Mo.net. Testing and Documentation thereof.
- Testing of Deferred Annuity code written by a colleague. Documentation thereof.

## **Travel – The Czech Republic, Poland, Finland, USA**

### **June 2007 – Feb 2008      Surrenda Link (UK), MoSes Developer**

- Developed from “scratch” a MoSes model for a Traded Senior Life Interest (similar to Traded Endowment Policies) portfolio of policies. The model includes the ability to have flexible data set sizes by using Temporary Tables, can handle both single and joint life policies, has an intelligent algorithm to decide which policies to buy and sell and the ability to effect these trades, and includes multiple currencies, hedging, expenses, leveraging, and is fully parameterized. Furthermore, the model has ability to handle multiple investment sources, the ability to run multiple scenarios in a single run, the ability to introduce shocks (for example, a sudden rise or fall in interest rates two years into the projection), produces substantial amounts of interim output to allow greater analysis of results beyond the “standard” MoSes output (for example, the interim output can be used to calculate the Internal Rate of Return for a single policy), and is fully stochastic, fully deterministic, and can easily be switched between the two modes.
- Developed Access Databases to process the output from the model into an “easy to read” format.
- Developed Excel Spreadsheets to store parameters, premiums etc for the model. Added VBA routines to output this data to tables for input into MoSes.
- Testing and documentation of the model.
- MoSes v6.1 Regression Testing
- Developed a Mortality Analysis MoSes model from “scratch”.
- Training staff in MoSes and Access.

### **Oct 2006 – April 2007      Swiss Re (UK), MoSes Modeling Lead**

- Managing the MoSes modeling team (three staff) within Swiss Re Life and Health. This included prioritizing and allocation of tasks, and reporting work progress to senior management and other stakeholders.
- Building Excel spreadsheets to test the correctness of the GE Insurance Solutions MoSes model's US GAAP functionality for external auditors. Documentation thereof.

- Migrating treaties from the GE Insurance Solutions MoSes model to the Swiss Re Life and Health MoSes model.
- Migration of the ex GEIS model from the GE server to the Swiss Re server. This involved assessing the needs of users worldwide, liaising with IT to develop the best solution, and implementing the solution.
- Training staff in MoSes.

**Mar 2006 – Sept 2006 Windsor Life (Swiss Re subsidiary) (UK), Prophet Developer**

- Investigation of differences between the previous owner's Model Office used for a block of business that Windsor Life bought and this block of business in their current Model Office. Adding/updating/testing code to ensure the Windsor Life Model Office is modeling this business correctly. Documentation as appropriate.
- Building Excel spreadsheets and Access databases to compare/reconcile the output from the two models. This involved VBA programming, including using advanced VBA features such as ActiveX controls, to automate loading data into the spreadsheets and databases, and creation of the comparison spreadsheets themselves.
- Investigation of differences in the data used to produce model points between that which was produced by the previous owners block of business, and Windsor Life data. Building spreadsheets to produce corrected model points files.
- Libraries: Conventional, Unit Linked

**Sept 2005 – Dec 2005 Generali (Guernsey), Prophet Developer**

- Developing/Improving and testing the Generali Prophet Model Office. This includes developing the Term Assurance, Whole of Life and Endowments products. This also includes merging individual products, e.g. Conventional Annuities, into the main workspace and appropriate regression testing, and testing of Bonds products.
- Updating and improving products, e.g. Group unit linked pensions, and correcting errors in code written by previous employees.
- Development of Test Harnesses to test the finished Term Assurance, Whole of Life and Endowments Products.
- Documentation of the above testing and development.
- Libraries: Conventional, Unit Linked

**Jun 2005 – Sept 2005 Norwich Union (UK), Prophet Developer**

- Developing standardized output for Norwich Union's Prophet Model Office. This includes coding new variables and indicators, adding new indicators to products, and manually adjusting the definition of variables for individual products. Library: Conventional

**Mar 2004 – May 2005 Prudential (UK), Lead Actuary (MoSes Developer)**

- Developing a Deferred Annuity model, both from a commutation function approach and a cash flow approach, firstly in Excel, and then in Moses. Testing and documentation of the model. The model was successfully used in year end reporting.
- Merging the above model with an existing Immediate Annuity model.
- Writing several complex Transact SQL queries to extract the model points used in the above model from the main annuity database.
- Assisting staff with computer and programming problems, particularly in Access and MoSes.

**Sept 2003 – Mar 2004 Classic Solutions (Australia), Actuary**

- Testing and debugging a Moses model that had been converted from an Excel spreadsheet
- Testing and debugging of the TAS10 Universal Life model that has been converted from TAS9.5 to the Moses platform

***Dec 2002 – Sept 2003 - Studying, Travelling throughout the United Kingdom***

**July 2002 – Dec 2002:            Britannic Assurance (UK), Actuarial Systems Analyst**

- Developed an advanced Visual Basic program to save 600 hours annually of menial work.
- Successfully managed the transition of actuarial systems in Alba Life from Glasgow to Birmingham
- Gained a basic knowledge of Moses
- Completed technical specifications for Alba Life's Traditional With Profits products for the Statutory Monetary Purchase Illustrations
- Liaising with Alba Life's Information Technology Department
- Assisting staff with computer problems

***Oct 2001 – July 2002 - Studying, Travelling throughout the United Kingdom, Ireland and Japan***

**April 2001- Sept 2001:            Commonwealth Bank of Australia (Australia), Sales Reporting Analyst**

- Re-engineering and automation of reports achieving over 95% reduction in the time taken to complete some reports
- Developed programming to produce new reports detailing inforce business and discontinuances
- Analysis of impact of the Financial Services Reform Bill on third parties such as brokers selling Commonwealth Bank products
- Training staff in Excel and Access programming
- Documentation of new procedures and programming undertaken to achieve the above automation
- Production of various reports detailing sales, inforce business and discontinuances for the Third Party Distribution Division of Colonial using Microsoft Access (including linking data using ODBC), Microsoft Excel (including Visual Basic Macros) and Cognos

**Sept 2000 – Feb 2001:            Insurance Council of Australia (Australia)  
Position:                                Statistical Information Manager**

- Designed and commenced testing of a formula to update the value of the insured loss for disasters that occurred in the past
- Designed a survey to assess current and future uses of the Internet by the Gen Ins Industry
- Analysis of the current and future levels of Fire Services Levy for various Australian states, using statistical techniques to project future levels of the levy
- Sourcing, analysis and presentation of statistical information for various uses in the ICA
- Administrative duties for the ICA's Actuarial Committee

**May 2000 – July 2000:            Commonwealth Bank of Australia (Australia), Senior Actuarial Analyst**

**Dec 1999 – April 2000:            Royal and SunAlliance Life (Australia), Actuarial Analyst**

- Completion of end-of-year 1999 APRA returns
- Developed a spreadsheet to calculate reinsurance premiums, splitting the premium out by benefit
- Documentation of difference between an externally audited "year-end" Prophet model and the current Royal and SunAlliance Prophet model
- Completion of regular unit pricing calculations and reporting
- Updating and re-development of APRA statistical returns spreadsheet

**July 1998 – July 1999:            Zurich Financial Services (Australia), Actuarial Analyst**

- Writing of specifications to extract model point data from new superannuation administration software and liaising with programmers as part of a team to ensure accurate provision of this data. This involved learning the Easytrieve language, decoding a 600 line program and writing the specifications from the knowledge gained from the decoding process

- Successful development and testing of numerous complex programming tasks within deadlines
- Decoding of programs written by previous employees (who had left Zurich) to be able to provide information (e.g. what a dormant policy was defined as within the model point software) to other employees within the valuation team
- Working as part of a team to successfully complete several quarterly valuations of Zurich's Life Insurance Division
- Compilation of model points used in Prophet. Testing this data for correctness
- Development of spreadsheets which form part of Zurich Financial Services quarterly valuation process
- Compilation and reporting of statistical information to external research companies
- Maintenance and improvement of mainframe programs and spreadsheets to provide the above information
- Maintenance and improvement of other mainframe programs and spreadsheets used both by the valuation team and other staff within the company

**July 1996 – July 1998: Commonwealth Bank of Australia (Australia), Actuarial Analyst**

- Streamlining and re-engineering of programs and processes which are used in the workplace. Quite often, this also involved using initiative to find more efficient and accurate sources of data and integrating these sources into the relevant spreadsheets. In every case, a substantial reduction (sometimes in excess of 90%) was achieved
- Participated in a team-reviewing annuity processing procedure by the Annuity Operations Department to ensure greater accuracy of death and surrender claims
- Promoted from Assistant Manager Grade A to Assistant Manager Grade B due to effective handling of increased responsibilities
- Ability to identify opportunities for increased efficiency and to complete the programming necessary to be able to achieve these goals
- Supervision and coordination of projects across several departments
- Compilation and reporting of statistical / management information, ensuring accuracy, relevance and quality of data
- Calculation of Surrender/Death Values for annuities
- Developing and maintaining models for calculation of investment returns for unit trusts
- Lapse/surrender/ mortality experience investigation
- Completion of an investigation and report detailing the need for and uses of E-mail within the workplace

**Nov 1995 – June 1996: Prudential Corporation Australia Limited (Australia)  
Position: Group Risk Fund Administrator**

- Completing complex SQL queries for Management Information purposes
- Administration of group risk policies. This included administration of claims, installation of new policies and termination of policies that were no longer with Prudential

**1994 – 1995: Various Companies  
Position: Security Guard**