Jane Smith

Electrical Engineer, Data Analyst and Computational Modelling Specialist

contact

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Australian Citizen

programming

github.com/MyUsername

C/C++

R

Perl

Python

Verilog-A

VHDL

scientific computing

Matlab

Simulink

Octave

LabVIEW

COMSOL

expertise

Data Analysis

Statistics

Mathematical Modelling

Computational Modelling

Data Visualisation

Systems Analysis

Data Modelling and Forecasting

references

Available upon request

professional summary

A highly talented, skilled and motivated electrical engineer with 10 years' experience driving high impact innovation through analytics of large datasets and computational modelling of complex systems.

I conceptualised, designed, applied and validated multiple models and algorithms for diverse datasets, including project management of small research teams.

I thrive in interdisciplinary and collaborative environments with experience engaging diverse stakeholders across research institutes, universities and industry.

work experience

2015 – Present **University of Australia** Defence Research Fellow
Developed mathematical models for the Defence XYZ program in ABC to develop closed loop control of X systems to activate Y and reduce Z. Successfully patented several innovations in topic A, topic B and topic C.

2012 – 2016 **University of Australia** Academic Research Fellow
Developed forecasting models for X disease with successful clinical translation based on Y method and involving data management of a large database of Z type data.

2010 – 2012 **Australian Research Institute** Research Assistant
Applied statistical models to optimise X performance across algorithms in Y devices that restore Z to ABC populations; results effectively minimised test time in clinical trials.

2006 – 2010 **ICT Company Australia** ICT Researcher
Research towards prediction of XYZ disease; obtained extensive experience in data analysis and mathematical modelling to forecast and classify disease events, including mining large databases of ABC data.

2005 – 2006 **ABC Technologies, Ireland** Design & Testing Engineer
Responsible for automation of test procedures on a silicon wafer probe station, including data mining and analysing text-based probing results. Design of custom electronics to client specifications.

2004 – 2004 **Tech Devices Company, Ireland** Intern – XYZ Design
Behavioural modelling to enable rapid simulation of XYZ; resulting models successfully deployed globally in the company's software libraries.

professional activities

Publications Full list can be found at: GoogleScholar://Jane Smith
Member IEEE Institute of Electrical and Electronics Engineers
Member IEEE WIE IEEE, Women in Engineering
Mentor for female engineers on IEEE Collabratec
Engineers Australia Speaker at ABC Engineering Conference, 2015

career highlights

→ mathematical modelling and data analytics

Productively managed interdisciplinary collaboration with XYZ over 10 years. My mathematical modelling and data analytics research was the basis of clinical trials at XYZ; positive trial results steered current clinical practice to ABC method.

Successfully developed data visualisation graphics to communicate analytical findings. At ABC Technologies, I programmed graphical mapping software to visualise parameters across a silicon wafer from text output of a wafer probe station.

Effective multi-institute collaboration where my models linked X data from ABC Institute with Y data from DEF Institute, steering experimental design at these partner institutions.

Patented innovations in the ABC project. This work used statistical modelling techniques and involved close collaboration with a nationwide consortium of partners including A, B and C.

→ reporting and presenting

Confident public speaker who delivers concise, informative and engaging presentations. I regularly present data findings and forecasting to technical groups, board members, project executives, large conference audiences and clinical collaborators.

Extensive experience generating well researched project reports for a broad range of stakeholders including national and international project managers, board executives, government and project partners.

Recognised for my technical communication and data analytics by receiving best paper award (awarded by IEEE) and best poster award for research excellence (awarded by Australian ABC Institute).

→ project development

Experience in project scoping, assessing technical trends and understanding regulatory requirements through my role at ABC focused on rapidly developing internationally competitive implants that were clinically safe and effective in restoring health.

Successful grant and fellowship applications, acquiring over $Xk funding to steer the strategic direction of projects including facilitating and chairing project meetings.

→ leadership and project management

Successfully managed research projects including leading, training and mentoring teams of PhD and masters level students.

Extensive experience co-coordinating and teaching engineering courses at University of Australia. Through skilful management, training and mentoring of teaching staff teams and effective liaison with technicians and IT support, I proficiently raised student experience scores from X to Y.

As a member of organising committee for the International Conference in Y, I expertly carried out financial management and budget projections; worked closely with venue management; oversaw the procurement of catering; and coordinated personnel and subcontractors.

As design engineer at ABC, I designed technical solutions to meet client requirements and oversaw their implementation and delivery.

I serve as engineering academic representative on student-staff liaison committees and working groups at the University of Australia, successfully mediating between students and academic staff, IT staff, administration staff and senior executives to improve student service experience through a consultative process.

education

2011	PhD Electrical & Electronic Engineering	University X, Australia
2005	Bachelor Electrical & Electronic Engineering	University Y, Ireland