Shaun Mark Moss

Computer Scientist – Web Engineer – Drupal Expert Teacher – Consultant – Solutions Architect

BSc (Comp. Sci., Maths, Comp. Sys. Eng.)

Zend Certified Engineer (PHP 5)

~ Curriculum Vitae ~

Personal Information



Date of birth: 29 October 1971 **Phone:** +66 926 165360

Email: shaun@astromultimedia.com

Skype: mossy2100

Address: Chiang Mai, Thailand

Driver's License: Yes (Queensland and International)

Nationality: Australian Language: English

Programming Background

- Expert programmer, software engineer, database designer and user interface designer.
- Self-taught programming at age 8.
- 27 years commercial experience in computer programming and software design.
- 20 years HTML.
- 16 years specialising in web application development.
- 13 years specialising in PHP/MySQL.
- 7 years specialising in Drupal (5, 6 and 7).
- BSc in Computer Science, Maths, and Computer Systems Engineering.
- Postgrad studies in Information Systems and Mechatronics Engineering.
- Zend Certified Engineer (PHP 5).
- Commercial programming experience in 4 countries (Australia, Netherlands, UK, Ireland).
- Experienced team leader, trainer and consultant.



Technology Skill Levels

Expert: HTML5, CSS3, JavaScript, jQuery, PHP5, MySQL, Drupal

Proficient: Photoshop, Apache, git, Flash/ActionScript, XML, C++, C#, ASP.NET

Experienced: nginx, Java, VB.NET, C++, UML, many others

Other Computer Skills

• All office programs.

- Many graphics programs, esp. Photoshop.
- All major operating systems, platforms, browsers and devices.
- Computer-aided drafting and modelling using AutoCAD/DraftSight and SolidWorks.
- Network and systems administration.

Other Skills and Qualities

- Extremely intelligent and creative.
- Talented and experienced teacher in programming, maths and science topics.
- Well-presented and well-spoken.
- Outstanding communication skills, including training sessions, presentations, technical documentation and reports.
- Three years experience in sales and management.
- · Highly experienced with customer-facing roles.
- Excellent attention to detail.
- Extremely high standard of English. A published writer.
- Qualified personal trainer with the Australian Institute of Fitness.
- Experienced project manager, tutor, lecturer and business owner.
- Strong general knowledge of science, technology, mathematics, engineering, business and geography.
- Friendly, positive, confident, relaxed and switched-on.
- Heart of gold (not literally, obviously).
- Great sense of humour!

Education

Year	Qualification/Results	Institution
2009	Zend Certified Engineer (PHP 5)	Zend
2005	Postgraduate studies in Mechatronics Engineering: Sensors and Actuators 7 (top of class) Introduction to Control 7 (top of class)	University of Queensland, Australia
2004	Master Trainer Certificate in Exercise Science and Fitness Management	Australian Institute of Fitness
2000-2001	Half of MSc in Information Systems Engineering completed with excellent results. See attached reference.	University of Reading, UK
1988-1991	Bachelor of Science, majoring in Computer Science, Engineering Maths and Computer Systems Engineering.	University of Queensland, Australia
1987	Senior Certificate with TE Score of 990 (maximum score, equivalent to OP 1, or top 1% of state).	Burnside State High School

Work History

Senior Developer	Upgrade and maintenance of Flight Centre and Travel Associates
Flight Centre	global sites.
Brisbane	Custom Drupal development.
(Jul 2014 – now)	Responsive, cross-browser and cross-device theming.
	Implementing technology proofs of concept.
	Third party integration with mailing list services.
	Creating responsive dynamic charts using web service data.
	Code reviews, peer reviews and testing.
	Providing training sessions for web development teams.
	Coaching and supporting junior developers.
	 Updating coding standards and documentation.
	See: flightcentre.ae, flightcentre.com.cn, flightcentre.com.hk,
	flightcentre.com.sg, flightshop.co.in, flightcenter.com.
Freelance Computer Scientist	Developing biosecurity intelligence software in Drupal 7, on behalf
Centre for Excellence in	of CEBRA for the Australian Government Department of Agriculture
Biosecurity Risk Analysis and	and the New Zealand Ministry of Primary Industries.
Australian Department of	Research, data model design, user interface design, software

Agriculture Melbourne, Canberra (2 years, Aug 2012 – Aug 2014)	 engineering and implementation, team management, project management, and collaborating with stakeholders in Australia and NZ. See: biointel.org, planthealth.org, aquatic.animalhealth.org, terrestrial.animalhealth.org. See attached reference.
CEO International Web Development Academy, Melbourne (5 months, Jul – Nov 2011)	 Providing training in Drupal, PHP, HTML and CSS to clients in Melbourne, Sydney, Canberra and Brisbane. Web development, marketing, business administration.
Senior Drupal Developer, Peregrine Adventures, Melbourne (16 months, Jan 2010 – May 2011) Freelance Web Developer, Melbourne, (15 months, Oct 2008 – Jan 2010)	 Writing custom Drupal modules (PHP 5, OOP, JavaScript, jQuery). Design and build large, complex data model. 3rd party integration with Tr@veller, CheetahMail and SecurePay. See: peregrineadventures.com, geckosadventures.com. Drupal development for clients in Melbourne and Brisbane (See: coloryourworld.org, babycards.ie, babycardsnow.com.au, babycardsnow.com, babycardsnow.co.uk, growmethemoney.com.au) Integration of Drupal with Google Maps API, Google Chart API, pChart, PHPMailer, FPDF, FPDI, etc. PHP, MySQL, JavaScript, jQuery, AJAX, Flash/AS2, ASP development for clients in Melbourne, Brisbane and Singapore (See: jigyasaconsulting.com). Back-end development and admin for Island Reef Job (islandreefjob.com – award-winning international ad campaign for Tourism Queensland) – working with Cummins Nitro.
Contract ASP.NET/AJAX/JS Programmer, Redox, Minto, Sydney (3 months, Jul – Oct 2008)	 Assisted 4-man team to complete a long-term business application that manages all aspects of operations. (Redox is a major chemical supply company. See: redox.com). ASP.NET, AJAX, C#, JavaScript and CSS, solving challenging user interface requirements. See attached reference.
IT Manager, Keytone Productions, Wolloongabba, Brisbane	 Managed all aspects of Keytone's IT requirements during their initial 9 months of operations. Web development (all aspects of SDLC) using LAMP technologies. Constructed elaborate multimedia-oriented community website

(9 months, Sep 2007 – Jun 2008)	 complete with e-commerce, virtual currency, security features, database administration back-end and more. All outsourcing, recruitment, training and management of IT team. Systems administration of office computers and web servers. See attached reference.
Analyst Programmer, Advantech Software, Newstead, Brisbane (4 months, Jan – May 2007)	 .NET programming (web and windows) using JavaScript, VB.NET with .NET 1.1, C# with .NET 2.0, ASP.NET AJAX, SQL Server and Transact-SQL, and custom components. Upgrade to front and back end of Cash Doctors website (See: cashdoctors.com.au) including database clean-up, interest calculations, wizards, contract generation, reports and graphic design. PHP, PostgreSQL.
Design Draftsperson, 3D Modeller, Project Officer and Industrial Designer Osborn Lane & Xstrata, Mount Isa (10 months, Feb – Nov 2006)	 3 months as Project Officer at the Site Services Engineering Workshop at Xstrata Mount Isa Mines, requiring excellent organisational and communication skills, knowledge of engineering principles, estimating, purchasing and logistics. Design and computer-aided drafting of mechanical and structural items for the mining industry, using AutoCAD. 3D modelling of fabrication projects using SolidWorks. Network and computer hardware support. Design of wireless network for new location; hardware procurement. See attached reference.
Draftsperson and Web Developer, Groundwork Environmental Management Services, Taringa, Qld, Aust. (6 months, May – Nov 2005)	 Preparation of geological and environmental drawings, mainly for applications to government on behalf of the quarrying industry, using AutoCAD. Web development with PHP.
Freelance Web Developer, Sunshine Coast, Aust. (3.3 years, Feb 2002 – Jun 2005)	 Developing web-based applications using PHP, MySQL, Javascript, Photoshop and Flash. Developed advanced information system for real estate industry for over 3 years (www.arosoftware.com). Software created using LAMP architecture to manage all aspects of a real estate business, including sales, marketing, administration, logistics, commissions, etc.
Research Assistant, University of Reading,	 Contributing to the PING (Platform for Interactive Networked Games) project, an EU project with partners from France, the UK,

Reading, UK (6 months, May – Oct 2001)	 and Sweden. Researching time management issues for distributed virtual environments Programming Java in a Unix environment. See attached reference.
Lecturer, Reading College, Reading, UK (4 months, Dec 2000 – Mar 2001) Contract Internet Developer, Dell Corporation, Bracknell, UK (3 months, Aug – Nov 2000)	 Lecturing in PC Systems, Object-Oriented Programming (UML, C++ and Java), and Multimedia (HTML, Photoshop). Assisting and teaching students. Preparation of classes and course notes. Tutoring, marking exams and assignments. Construction of prototype web interface for Dell's new online store for Europe, Middle East, and Africa. Research into best-practice e-commerce web design. Web development using ASP, JavaScript, HTML, and Photoshop.
Senior Developer, Intuition Publishing, Dublin, Ireland (3 months, Apr – Jul 2000)	 Rewriting several in-house tools using Visual C++, MFC, SQL, Oracle and SQL Server. Upgrading company website using ASP, JScript, JavaScript and Photoshop.
Senior Developer, The Kitchen, Zeist, The Netherlands (9 months, Jul 1999 – Mar 2000)	 Web development using Drumbeat, ASP, JavaScript, HTML and Photoshop. Database design using Access and SQL Server. Website configuration using IIS and Site Server. Some coding with Delphi, CFML, SMIL. See attached reference.
Computer Technician and Programmer, Australian Commercial Electronics, Brisbane, Australia (5 months, Mar – Jul 1999)	 Customer telephone support. Software development in FoxPro. PC upgrades and repairs. LAN troubleshooting. Internet domain administration. Developing the company's websites (ASP). Researching Y2K issues.
Computer Programmer, Softworks Australia, Brisbane, Australia	 Building software and database management programs using Centura and SQLBase. Clients included BHP and St Andrew's Hospital.

(3 months, May – Aug 1998)	
Self-employed Tutor, Brisbane, Australia (9 months, Feb – Nov 1998) Sales Manager, Surpass Computers, Brisbane, Australia (3 months, Aug – Nov 1997)	 Tutoring high school students in maths, physics and IT topics. Tutoring first year university and TAFE students in programming (C++ and VB) and physics. Tutoring in usage of Internet and Windows. Preparation of quotes. Customer relations. Arranging deliveries. Excellent communication and organisational skills, and a thorough knowledge of computer hardware were required.
Computer Programmer, Austwide Garages Buderim, Australia (1.7 years, Nov 1995 – Jul 1997)	 Production of a software package for design of steel buildings, and producing 3-dimensional perspective colour views. Software developed using Borland C++ and Windows 95.
Computer Technician and Salesperson, QUT Bookshop, Brisbane, Australia (1.2 years, Jan 1995 – Mar 1996)	 Upgrades and sales of PC systems. Sales assistant and storeperson duties.
Salesperson, Trainer, and Manager, Granton Marketing, Australia and the Netherlands (2 years, Sep 1992 – Aug 1994)	 Door-to-door sales and marketing. Promoted to Trainer after 5 weeks. Received sales performance award. Promoted to Manager after 4 months. Contributed to company expansion into Europe. Trained and managed salespeople in the Netherlands. Opened new location in Rotterdam and managed it for 5 months.
Computer Programmer, Economy Garages, Yandina, Australia (3.7 years, Oct 1988 – Jun 1992)	 Programmed groundbreaking software for the steel building industry part-time during university studies. Borland Turbo Pascal on MS-DOS. Software allowed user to specify all parameters to describe a steel building, and could produce detailed parts lists, and isometric and plan views, roofing diagrams, etc. Reference available on request.

Writing

Book: The International Mars Research Station (marsbase.org), self-published 2015.

Book: Practical Metaphysics (practicalmetaphysicsbook.com), self-published 2009.

Papers and presentations for the 9th International Mars Society Conference, July 2006:

Steelmaking on Mars

Terraforming Mars

Essay: "Call for a Global Space Revolution" published in *The Moon Miners Manifesto* and *The Mars Quarterly*.

Interests

- · Web development, Web 2.0, social networking, multimedia, UI/UX design
- Writing
- Health and fitness, psychology
- Technology, electronics, space, robotics, AI, physics
- · Environmentalism, humanitarianism, conservation, animal rights, ecovillages
- Spirituality and metaphysics
- · Business and economics
- Travel and geography
- Playing music (drums, singing, guitar)

Organisations

2014	Mensa
2014	Space Development Steering Committee
2009	Space Renaissance Initiative (Committee Member)
2008	National Space Society of Australia
2006	Mars Foundation (Program Study Team)
2006	Space Frontier Foundation
2002	Moon Society (Board of Directors 2009–2010)
1999	Mars Society, Mars Society Australia

Space

- Expert in space exploration and settlement, especially Mars.
- Attended and presented at numerous space conferences in US, UK and Australia.
- Spoke at TEDx Noosa in April 2014 on IMRS and humans-to-Mars mission architecture.
- Interviewed about Mars by ABC Radio several times, and by Slashdot.org.

References

Nick Schoonens Team Leader Flight Centre Travel Group Brisbane nick_schoonens@flightcentre.com +61 416 299181	Amanda Kendrick Team Leader Flight Centre Travel Group Brisbane amanda.kendrick@flightcentre.com.au +61 438 905291
Mark Burgman Director Centre of Excellence for Biosecurity Risk Analysis Melbourne markab@unimelb.edu.au +61 448 811603	Sam Hamilton Director Animal Disease Preparedness and Response Australian Government Department of Agriculture sam.hamilton@agriculture.gov.au +61 2 6272 3226
Simon Hobbs Senior Developer EmSpace, Peregrine Adventures, Technocrat Melbourne simon@hobbs.id.au +61 425 869746	Deepa Balaji Manager Jigyasa Consulting Singapore deepa@jigyasaconsulting.com +65 975 14107
Richard Coneliano IT Manager Redox Richard.Coneliano@redox.com +61 2 9733 3131	Trevor Topfer Managing Director Keytone Productions trevor@topcatt.co.nz +61 434 675870
Anthony Bogaart Manager Osborn Lane Industrial Mount Isa +61 412 754968	Greg Ballarino Superintendent Site Services Engineering Workshop Xstrata Mount Isa Mines +61 434 075159
David Kershaw Managing Director Groundwork Environmental Management Services +61 7 3871 0411	



To whom it may concern

Letter of recommendation for Shaun Moss

I worked with Shaun on a University of Melbourne Centre of Excellence for Biosecurity Risk Analysis project called the 'International Biosecurity Intelligence System' (IBIS, www.biointel.org). IBIS is a biosecurity intelligence network developed to collect, analyse and disseminate information on animal and plant diseases, which may affect human health, agricultural productivity, and trade or food security.

Shaun was the web developer and project manager for this initiative. Through his leadership, innovation and problem-solving skills, the site developed from a basic clunky prototype that we provided him to a slick professional product with over 600 international users. Throughout the beta-testing phase Shaun was dedicated to user's concerns, and provided 24/7 support for our users. Over his two-years on the project, Shaun displayed excellent negotiation and communication skills and balanced the expectations of a broad range of users from disparate communities of aquatic animal scientists, veterinarians, botanists, entomologists and plant pathologists.

Shaun is a good operator, who maintains a positive attitude and delivers beyond expectations. His creativity and strategic thinking was a great asset for our project.

I would have no hesitation working with Shaun again.

Yours faithfully

Sam Hamilton

Director, Animal Disease Preparedness and Response Australian Government Department of Agriculture

Email: sam.hamilton@agriculture.gov.au

Phone: +61 (0)2 6272 3226

21 July 2014

Redox Pty Ltd

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Corporate Office Sydney

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all deliveries Holmes Road entrance phone +61 2 9733 3000 facsimile +61 2 9733 3111

web www.redox.com email.sydney@redox.com



10/10/2008

TO WHOM IT MAY CONCERN

Shaun Moss has been contracting at Redox Pty Ltd as an ASP.NET/AJAX developer for the past 3 months.

We are nearing the end of a large and complex project and I was apprehensive of introducing a newcomer to our team at the 11^{th} hour. Somehow Shaun hit the ground running and was productive from day 1-I don't think I can say that about anyone else we've had on this project. Shaun fit right in to the team and came up with many innovative solutions to complicated issues. Possibly Shaun's best quality is his meticulousness and attention to detail; he tested all his work thoroughly & one week on and we've had no bugs appear on any of his work. Again, I don't know how may developers I can say that about - THANKS SHAUN!

I would recommend Shaun to any prospective employer and if he ever finds himself back in the south western suburbs of Sydney I would encourage him to look us back up.

I'm available anytime to discuss.

Regards,

Richard Coneliano Information Technology Manager

Redox Pty Ltd

2 Swettenham Road Minto NSW 2566

Direct) 02 9733 3131

Mobile) 0414 848384

Richard.Coneliano@redox.com







Trevor Topfer
Director
Keytone
Ltopfer@keytone.com
0434675870
PO Box 8176, Woolloongabba Q. 4102

1/7/08

RE: Shaun Moss

To whom it may concern,

Shaun Moss was employed by Keytone from September 2007 through to June 2008. During his tenure Shaun held the position of Senior Web Developer. He was responsible for the conceptualization, planning and development of the site www.keytone.com. He was also responsible for the management and development of the Keytone Web Development Team which grew to a team of four programmers during this period.

Shaun performed exceptionally highly in this role and exceeded our expectations so often it became the norm. His dedication, loyalty, insight and understanding of all facets of major web applications was second to none and proved invaluable during the early development of this large scale web facility. With a calm demeanor he managed to extract the best work from the web team in highly stressful conditions. He was very reliable, punctual and comfortable raising issues with senior management. I would have no hesitation recommending Shaun to any prospective employer. He would be an asset to any company.

I would welcome an opportunity to recommend Shaun personally, feel free to contact me regarding this.

Kind Regards,

Trevor Topfer.

INDUSTRIAL INDUSTRIAL

OB Management Pty Ltd trading as Osborn Lane Industrial A.C.N. 095 306 853 A.B.N. 97 095 306 853

24 November 2006

To whom it may concern:

Shaun Moss has been employed by Osborn Lane Industrial for approximately ten months, from February to November, 2006.

As a design draftsperson, 3d modeller and industrial designer, he has been efficient, creative, professional, and quick to learn. His AutoCAD skills have been expertly demonstrated, and he has become productive at 3d modelling using SolidWorks in a remarkably short period.

Shaun's computer expertise has been immensely beneficial during his time here, providing support for the office computers and servers, and designing the network for our new location. He has also provided tutoring in AutoCAD, SolidWorks and maths to other staff members.

For 3 months Shaun was contracted to the Engineering Workshop at Xstrata Mount Isa Mines, where he worked as a Project Officer. In this role he represented our company admirably, demonstrating excellent project management, organisational and communication skills.

I have found Shaun to be friendly, good-natured and well-presented, and a pleasure to work with. He has been a valuable contributor to our company during his time here, and will be missed.

I have no hesitation in recommending Shaun.

Yours faithfully

Anthony Bogaarts Managing Director

Osborn Lane Industrial, Mt Isa

Ph: 0412 754968

MT ISA OFFICE

PO Box 1314

Level 1, 28 Miles Street MT ISA QLD 4825

Ph: (07) 4749 0830 Fax: (07) 4743 5106

email:mtisa@osbornlane.com

BRISBANE OFFICE

12 Parraburdoo Cres SHAILER PARK QLD 4128 Ph: (07) 3018 8666

Fax: (07) 3801 3160

WARWICK OFFICE

Po Box 495 148A Palmerin Street WARWICK QLD 4370

Ph: (07) 4660 3300 Fax: (07) 4660 3310 IPSWICH OFFICE

105 Limestone Street JPSWICH QLD 4305 Ph: (07) 3282 7770 Fav: (07) 3202 4343

Fax: (07) 3202 4343 email: peter.o@osbornlane.com

The University of Reading

To whom it may concern:

26 October 2001

Dear Sir/Madam,

I have known Mr. Shaun Moss since October 2000. During the past year, Shaun has studied and worked at the University of Reading with exceptional results. As part of the Advanced European MSc in Network Centered Computing, he has completed 6 of the 12 required modules with the following distinction level grades:

Internet Software Environments: 90
Computer Architectures: 90
Transferable Skills: 98
Advanced Programming on UNIX: 80
Parallel Algorithms: 78
Virtual Reality: 85

This MSc degree is taught in an extremely intensive format (one or two weeks per module). These results illustrate dedication, self-motivation, considerable aptitude for quickly grasping complex topics, and are a good indication that Shaun would attain an overall grade at Distinction level in this degree.

Shaun has worked at the University as a Research Assistant during the past 6 months as part of the VR group on the EU PING (Platform for Interactive Networked Games) project, also with commendable results. PING is a platform, constructed in Java, to enable the deployment of large-scale persistent shared virtual worlds for online games. Each partner is developing a different component of this state-of-the-art platform. In particular, at Reading, we are focused on solving consistency and time management issues, and Shaun has researched, designed, implemented, and presented several consistency policies as part of his contribution to this project. His work has required independent research, an overall comprehension of the entire PING platform, and communication with the other team members. This has outlined all his teamwork and managerial qualities. His talents for programming and creative problem-solving have been skillfully demonstrated, and his communication and presentation skills have represented the University admirably.

Shaun has a friendly, relaxed nature, and relates equally well with students and members of staff. I have enjoyed having him at the University and on the course, and feel certain he will be a genuine asset to any employer. I strongly support Shaun Moss's application for any position appropriate to his skills, and wish him every success for the future.

If you need any further details please do not hesitate to contact me.

Yours truly,

Dr. V.N. Alexandrov

MSc Course Director & Senior Lecturer

School of Computer Science, Cybernetics and EE

University of Reading, Whiteknights, Reading, RG6 6AY

Phone: 0118 931 6722



To whom it may concern,

During the six months Shaun Moss has worked as a Senior Programmer for our company, I have appreciated him as having integrity, being willing to learn, eager to improve processes and quick at understanding. In the time he has worked with us he has managed to learn new tools and is often able to complete projects ahead of schedule, without extra training.

Shaun has a friendly, open nature and always makes time to assist other programmers or participate in discussions. He keeps himself up-to-date with the latest advances in web technologies and has excellent technical knowledge, combined with a talent for creative problem-solving.

Therefore I kindly recommend him and can honestly say that he has been a tremendous asset to us during his time here.

Regards, Baldwin Verhaar [Process manager]

The Kitchen Interactive P.O. Box 858 3700 AW Zeist

phone: (+31) 30 6973777 e-mail: Baldwin@thekitchen.nl SHAUN MARK MOSS P.O. BOX 248 YANDINA Q. 4561



P.O. Bax 307, Spring Hill, Q. 4004

ATTACHED HERETO IS AN INTERIM STATEMENT OF ASSESSMENTS OF ACHIEVEMENT IN COURSES OF STUDY UNDERTAKEN IN YEAR 11 AND 12 - 1986/87



BOARD OF SECONDARY SCHOOL STUDIES QUEENSLAND

INTERIM STATEMENT OF RESULTS (SENIOR) - ISSUED DECEMBER 1987

NAME: SHAUN MARK MOSS			86-36712-1
SCHOOL: BURNSIDE STATE HIGH SCHOOL		229	
SUBJECT	CEMICOTED	No. OF UNITS	LEVEL OF ACHIEVEMENT
BOARD SUBJECTS			
ENGLISH MATHEMATICS I MATHEMATICS II CHEMISTRY PHYSICS GRAPHICS	01 02 03 04 01 02 03 10 07 08 05 11 01 02 03 04 01 02 03 04 01 02 03 04	04 04 04 04 04 04	HIGH ACHIEVEMENT VERY HIGH ACHIEVEMENT
	TOTAL NO.UNITS	24	TOTAL NO. SUBJECTS 06

Issued without alteration or erasure.

IMPORTANT - PLEASE NOTE: The reverse side of this Statement contains important explanatory notes. Please read them carefully.

Please tear at perforation



BOARD OF SECONDARY SCHOOL STUDIES
QUEENSLAND

TERTIARY ENTRANCE SCORE - ISSUED DECEMBER 1987

NAME:

SHAUN MARK MOSS

86-36712-1

SCHOOL:

BURNSIDE STATE HIGH SCHOOL

229

TERTIARY ENTRANCE SCORE

990



Shaun Mark Moss

having fulfilled the conditions prescribed by the University is this day admitted to the degree of

BACHELOR OF SCIENCE

GIVEN UNDER THE COMMON SEAL OF THE UNIVERSITY OF QUEENSLAND THE FIFTH DAY OF MARCH, 1992

Chancellor

Vice-Chancellor

Secretary and Registrar

140881/886

No. 371-92