



Resume

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Summary

A strong interest in vessels, pipelines and verification of associated vendor calculations and modelling.

Academic History

2005 – Present Member of ASME International
2001 – Present Member of the Institute of Engineers Australia. Chartered Practising Engineer (Mechanical)
1995 Graduated with a Bachelor of Engineering (Mechanical) with First Class Honours
1995 Member of the Golden Key Honours Society
1993 Graduated with a Bachelor of Science majoring in Physics and Applied Mathematics
1990 Began studying Science and Mechanical Engineering at Monash University (Clayton)
1998 Completed V.C.E at Mentone Girls Secondary College with an Anderson Score of 374.3 out of 420 (Average 90%).

Academic Achievements

2005 Certified SolidWorks Professional Exam
2005 Strand7 (Finite Element) Introduction Course
2005 OH&S for Managers, Supervisors & Health and Safety Reps
2004 Halliburton Code of Business Conduct Certificate of Training
2002 COADE Advanced training in CaesarII pipe stressing analysis
2000 Intercad Certificate of Achievement for SolidWorks Basic Training
2000 Certificate of Attendance at the Conference on Web Site Development and Design
2000 AES Engineering Bronze Level of the AESSEAL online Correspondence Course for mechanical seals
1998 Leap Pty Ltd Introduction to ANSYS 1 & 2, Introduction to FLOTRAN, Thermal Analysis and Non Linear Analysis courses
1998 Computervision CADDs Basic Training and Parametric Training
1997 NSITC Certificate of Training in Flame Atomic Absorption Spectrophotometry
1996 Awarded an Australian Postgraduate Scholarship in Machine Condition Monitoring (later deferred to obtain practical experience)
1991 - 1995 Melbourne Water Women in Engineering Cadetship
1990 Dean Scholarship for Engineering
1988 V.C.E. Academic Excellence Awards in Chemistry, Mathematics and Biology
1984 \$40 Bursary in the Science Teachers Association of Victoria ' Science Talent Search'
1988,86,85,83 Certificate of Distinction in the Australian Mathematics Competition



Professional Committee Involvement

2004 - Present HS&E Representative, KBR, 15 William Street Melbourne
2003 - 2004 Chairperson of the HS&E committee, KBR, 452 Flinders Street Melbourne

Work Experience

Subcontracting Feb 2001 – Present

Working with Halliburton KBR to design and implement projects in the petrochemical industry for Esso Australia, BHP Billiton and Shell. This work involves creation of pipe specifications, pipe stress analysis, tank design, pressure vessel design, deluge modelling, procurement and verification of delivery of goods to site. Site experience includes Offshore platform deluge and fire pump testing, Long Island Point fire water testing as well as Long Island Point Flare Upgrade equipment verification and maintenance record search. Major projects include Long Island Fire Water Upgrade, Minerva Gas Plant Fire Water System design, Turrum Separator verification and Offshore MOL Meter replacement.

Contracting Sept 1999 – Present

Research and design of products using SolidWorks2005 and DesignSpace 6.0. Conversion of 2D drawings to 3D SolidWorks2005 parametric models for companies to upgrade their information and get products to market. Creation of models and assemblies from sketches, or from direct measurement. Finite Element Analysis of parts and assemblies to aid the design process. Latest work with ABB Fans, Ceramic Fuel Cells Limited, 3M Library Systems, Rapak Asia-Pacific and Chubb Fire Safety.

Mechanical Design Engineer with Varian Australia, Jan 1997 – Sept 1999

Sole engineer designing the Mark 7 Burner for the SpectrAA instruments (Atomic Absorption Spectrophotometers) introduced September 1998. Worked closely with AW Bell for investment casting. Machining tolerances integral to product success. Daily use of CADD5 (CAD) and ANSYS (FEA) utilising 3D Solids and Parametrics modelling. Later worked on a new instrument, bringing accessories from their concept to pilot stage. This involved design of sheet metal parts, castings, fabrications and parts for plastic injection mouldings.

Junior Engineer with Quetada Consulting Engineers , Feb 1995 - Jan 1997

Sole client : ESSO Australia Pty Ltd. Making and checking design calculations and drawings for mechanical seal introduction. Using Autocad 12 with a digitiser to produce drawings. Liaising with vendors to ensure fulfilment of their commitments. Producing Project Data Books for completed projects. Producing data sheets for equipment used in projects. Offshore work included fire pump testing and mechanical seal inspections in Bass Strait.

Autocad 13 (for Windows) University Tutor, July 1995 - November 1995

Helping third year Engineering students complete drafting assignments.

Engineering Student with Barry James Cranes July 1995 - September 1995

Making lift calculations and observing jobs on site such as an overpass construction (Western Ring Road) and pressure vessel erection (ICI).

Six months with Asea Brown Boveri - Baden, Switzerland 1994

Calculating the creep equation of new Nimonic materials for Steam Turbine Bolts. Fortran programming to confirm this equation. Finite Element modelling using ABAQUS to predict the behaviour of these new bolts under service conditions.

Maths and Physics tutor to year 12 level 1990 - 2000

Up to 12 students on a weekly basis focussing on their understanding of the work covered in the V.C.E. syllabus and exam preparation.

Swimming and Life Saving Instructor 1991 - 1995

Monash University Pool teaching toddlers, school children, private lessons, squads, disabled people and adults. Instructor for the Royal Life Saving Society Bronze Medallion.

Fifty weeks Engineering Experience with Melbourne Water 1991 - 1995

Silvan Pilot Plant Project Management 1994 - 5

Pakenham Pilot Plant Operations and Report Writing 1993 - 4

Dandenong Office studying and designing Litter Traps 1992 - 3

South Eastern Purification Plant working in the Machine Shop and Engine Room 1991-2

Head Office designing a Pump Station upgrade 1990 - 1

Other Achievements

Community Involvement

- 2005 – Present Treasurer of Dolphin Gymnastics Club Frankston
- 1997 – 2004 Lieutenant Royal Australian Naval Reserve
- 1997 – 1999 Treasurer of Westernport Yacht Club (Balnarring)
- 1998 Obtained HAM radio advanced theory and 5 wpm morse code
- 1995 Involved in the Young Achievers Australia Program (Manufacturing Director)
- 1994 Outward Bound participant on an abled and disabled camp
- 1991 – 1993 Active Life Saving Member (Frankston and Chelsea)

Sports and Hobbies

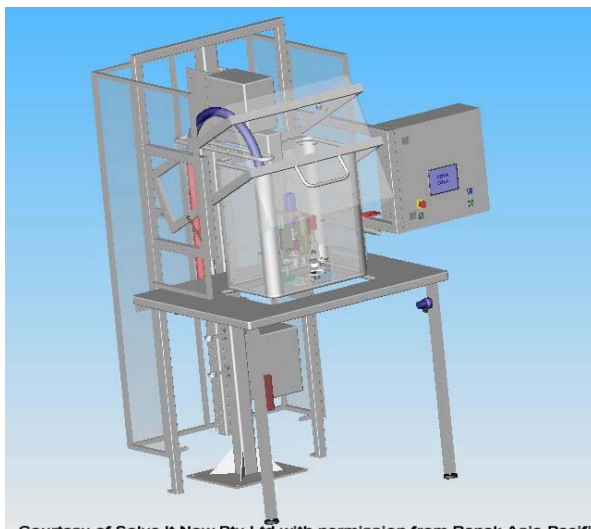
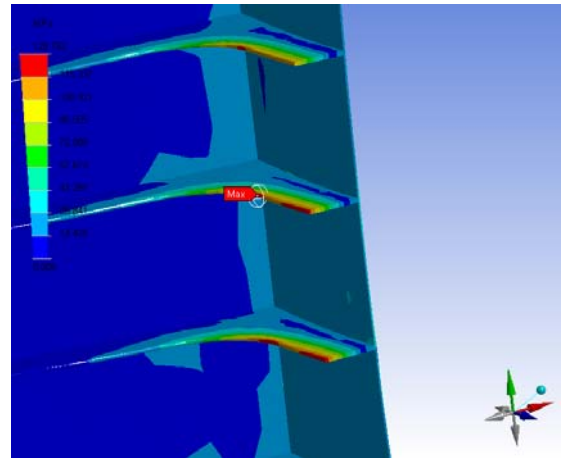
- 2004- Present Train in Artistic Gymnastics
- 1998 Second Senior in the Victorian Sparrow Sailing Championships
- 2000, 1998, 1993, 1992 Ladies Champion Sparrow Sailing Championships
- 1994 Climbed the Matterhorn, Switzerland
- 1994 Competed in the Australian University Games (Sailing), Canberra
- 1993 Third Overall in the Victorian Sparrow Sailing Championships
- 1993 Advanced First Aid, Red Cross
- 1993 Began learning German
- 1992 & 1993 Competed in the National Life Saving Championships
- 1992 Royal Life Saving Society Australia Victorian Open Pool Champion
- 1992 Competed in the Australian University Games (Swimming), Perth
- 1989 – 1994 Travelled around the world independently twice totalling 18 months
- 1984 & 1989 Competed in Cowes Week (Sailing) UK, in the SCOD class
- 1984 Sailed to France and the Channel Islands from England

Goals

- Transform ideas into workable businesses or products
- Upgrade my skills in the IT industry
- Visit Antarctica
- Design and build my own house

Referee

Mr Bryan Noble
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