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| BUI, Robert Q.H.  Citizenship: Australian | Security Clearance: Yes |  | Cabramatta, NSW 2166  0423 88 66 87  robertqhbui@gmail.com |

## Profile

Experienced software engineering leader with 15+ years of developing enterprise applications.

Advocate for Object-Oriented development using UML, Design Patterns and SOLID principles.

Strong engineering process experience, from software system design to testing and deployment.

## Skills

## Experience

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| Software Engineer | Aug 2022 – Current | BAE Systems Australia |

* Successfully resolved issues and refactored the combat training systems on Windows & Linux – a real-time distributed system over Ethernet using message exchange.
* Analysed & resolved complex communication problems of software components involving low-level hardware serial communication and USB connectivity between Solaris servers, embedded C code on VxWorks and C code on Linux.
* Acquired C# development skills and resolved multithreading issues within the required timeframe.

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| Owner-Operator/IT Support | Oct 2010 – Jun 2022 | Marketfair Newsagency |

* Successfully steered the failing business into profit-making within the first 12 months, exceeding customer's expectations and demonstrating strong leadership and business acumen.
* Integrated the POS system with the Woocommerce online store using ETL and PHP with REST API for inventory and price updates, leading to a 12% monthly revenue growth.

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| Systems Analyst | Dec 2009 – Aug 2010 | Allied Express Transport |

* Enabled seamless transport operations to maintain steady business functions during the Agile development of a next-generation Enterprise Resource Planning (ERP) system, with data synchronisation under 1 second latency for over two thousand transactions per second.
* Boosted the company's industry leadership in technology by allowing customers to track parcels visually on maps in real-time that used GPS, JavaScript, PHP & ETL with Microsoft SQL, Ingres & PostgreSQL servers.

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| IT Manager | Dec 2006 – Dec 2009 | Allied Express Transport |

* Re-architected the Proof of Delivery document management system on Linux using multithread in C++ interfacing with image scanners and barcode recognition algorithm, incorporating Boost and POCO C++ libraries.
* Guided the team of Software Engineers in pioneering web services using SOAP and REST APIs, creating an industry trend that allow customers to integrate freight management.
* Recovered $2 million pa in revenue leakage for the freight business unit, using embedded SQL C and ETL on Solaris Unix and Ubuntu Linux servers.
* Strengthened IT infrastructure and reduced downtime by implementing an automatic monitoring system, by customising Nagios, and hardening network policy with iptable.

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| Software Development Manager | Aug 2003 – Dec 2006 | Allied Express Transport |

* Successfully communicated with and delivered tailored freight software solutions to key customers, including Bing Lee, DHL, LG & Toyota, generating a significant $40 million pa.
* Collaborated with the finance and operation teams to streamline the standard process of for acquisition of companies into Allied Express Transport.
* Established a structured software development process in alignment with the US Military-Standard-498 & Software Engineering Body of Knowledge, including version control and code peer review.
* Coached junior software engineers in Object-Oriented Design and Development.
* Optimised product databases and Ingres 4GL ERP system code for improvement in performance that catered for increasing number of internal users and customers.

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| Software Engineer | Mar 2001 – Aug 2003 | Raytheon Australia |

* Crafted a simple to use Combat System training software for the Collins Class Submarine, positively impacting the learning experience of naval personnel annually.
* Developed new message bus for exchanging Combat System sensor data on Solaris in Ada95 using design patterns and UML with Rational Rose.

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| Software Engineer/Team Leader | Jul 1997 – Mar 2001 | Allied Express Transport |

* Innovated the first freight parcel tracking system in Australia, utilising PowerBuilder on Windows, and embedded SQL C on Unix.
* Produced the first automatic courier booking system in Australia via EDI using embedded SQL C on Unix with Ingres DBMS, generated $20 million pa with Foxtel, Ingram Micro, and others.
* Authored the first EDI specification for Australia's transport and logistics industry.
* Collaborated with Canon Australia to create Australia's first electronic POD document management system.
* Reduced labour by more than 40% by automating daily IT administrative tasks.

## Education

Master of Business Administration | University of Technology, Sydney

Master of Computing | University of Western Sydney

Bachelor of Science | University of Sydney

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| Languages | | Platforms | | Databases & Tools | | Processes/Frameworks | |
| C/C++ | 4/5 | Unix | 4/5 | PostgreSQL | 4/5 | Git | 3/5 |
| C# .NET | 2/5 | Linux | 4/5 | Ingres | 4/5 | Bitbucket | 3/5 |
| PHP | 3/5 | Windows | 3/5 | MySQL | 3/5 | GoogleTest / JUnit | 2/5 |
| Java | 2/5 | VxWorks | 1/5 | Microsoft SQL | 3/5 | Confluence | 3/5 |
| Java EE | 1/5 |  |  | SQL | 4/5 | REST API | 2/5 |
| Ada | 2/5 |  |  | ETL | 4/5 | Jira | 3/5 |
| Python | 1/5 |  |  | Pentaho PDI | 4/5 | UML / SysML | 4/5 |
| JavaScript / Typescript | 1/5 |  |  | Apache Hop | 4/5 | Object-Oriented Development | 4/5 |

Detail of Projects: https://github.com/robertqhbui/Portfolio