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

## Profile

Experienced software engineering leader with 15+ years of experience 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

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| Languages | | Platforms | | Databases | | 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 |  |  | 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 |

## Experience

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

Enhanced the combat training systems on Windows & Linux – a real-time distributed systems over Ethernet using messages for communication.

* Resolved software issues & refactored C++, C# & PHP software components using UML for architectural and detailed design with Visio, following Waterfall SDLC.

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

Turned around a failing retail business and made a profit within the first 12 months.

* Integrated the proprietary POS system with the Woocommerce online store using PHP and REST API for continuous inventory and price updates.

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

Transport & logistics software domain aliasing between the business and the technical team.

* Enabled transport operations to be “business as usual” while the next-generation Enterprise Resource Planning system (ERP) was being developed using Agile software development approach. Developed real-time integration subsystem on Linux & Windows between the legacy ERP and the new ERP using Pentaho Data Integration (ETL).
* Enabled real-time tracking of parcel on map by implementing a live vehicle tracking system for the fleet of over 3500 drivers using JavaScript, PHP & ETL with Microsoft SQL, Ingres & PostgreSQL servers.

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

Led a team of fifteen IT professionals to develop software and administrate networks and servers in six locations across Australia.

* Developed Proof of Delivery Imaging System on Linux using multithread in C++ interfacing with document image scanners and barcode recognition algorithm, incorporating Boost and POCO C++ libraries. Architecture and detailed design with UML using ArgoUML.
* Led and designed the new web-based freight booking and parcel tracking for 6,000+ users using Java Enterprise Edition and Web services via SOAP on Ingres and PostgreSQL DBMSs. The first in Australia to allow customers to integrate for a complete freight solution. Architecture and detailed design with UML using ArgoUML. Using Hibernate for ORM to speed up development of persistent data access.
* Recovered $2 million pa with business intelligence in the freight business unit, using embedded SQL C and ETL on Solaris Unix and Ubuntu Linux servers.

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

Led team of seven software engineers undertaking ERP system development on Solaris Unix.

* Developed new freight booking via Electronic Data Interchange (EDI) that won multimillion-dollar contracts using Ingres DBMS, e.g., LG Australia, DHL, and Toyota.
* Established a structured software development process in alignment with the US Military-Standard-498 & Software Engineering Body of Knowledge.

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

Designed and implemented defence capability software.

* Developed the Australian Collins Class Submarine combat system training software in C++ using design patterns and UML with Rational Rose.
* Developed a message bus as a common platform for exchange of Combat System sensors data on VxWorks, real-time operating system, 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 |

Implemented structured development processes and deployed new technology capabilities.

* Developed the first freight parcel tracking system in Australia, utilising PowerBuilder on Windows, and embedded SQL C on AIX Unix.
* Developed the first courier booking system in Australia via EDI using embedded SQL C on Unix on Ingres DBMS, which won contracts with multimillion dollar customers.

## Education

Master of Business Administration | University of Technology, Sydney

Master of Computing | University of Western Sydney

Bachelor of Science | University of Sydney

## Examples of work

Past Projects : https://github.com/robertqhbui/robertbui