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## Profile

I am an experienced software engineering leader with 15+ years of experience helping businesses create software solutions on major platforms and languages. I have 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 | 3/5 | 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 | Google Test (TDD) | 2/5 |
| Java | 3/5 |  |  | Microsoft SQL | 3/5 | Glibc | 3/5 |
| Python | 1/5 |  |  | SQL | 4/5 | REST API | 2/5 |
| Ada | 2/5 |  |  | ETL | 4/5 | Node.js / React | 1/5 |
| JavaScript / Typescript | 1/5 |  |  | Apache Hop / Pentaho PDI | 4/5 | Object-Oriented Development | 4/5 |
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## Experience

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

Developed and supported combat training systems on Windows & Linux with C, C++, JavaScript, C# & PHP.

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| Owner/Operator | Oct 2010 – Jun 2022 | Marketfair Newsagency |

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

* Created an extra revenue stream, average 13% of monthly revenue, by implementing a Woocommerce online store for gifts and aromatherapy products.
* 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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| IT Consultant | Dec 2009 – Aug 2010 | Allied Express Transport |

Systems technical expert aliasing between the business and the technical team.

* Enabled operations to be “business as usual” while developing the next-generation Enterprise Resource Planning system (ERP). Developed real-time integration subsystem between the legacy ERP and the new ERP using Pentaho Data Integration (ETL).
* 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.
* Led and designed the new web-based freight booking and parcel tracking for 6,000+ users using Java (J2EE) and Web services via SOAP. The first in Australia to allow customers to integrate for a complete freight solution.
* Implemented systems and network monitoring system, with email and SMS alerts for 67 network nodes and services across five states.
* Implemented the IT Helpdesk system so all IT requests get documented, prioritised, tracked, and resolved quickly.
* Recovered $2 million pa using business intelligence in the freight business unit.

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

Led team of seven software engineers undertaking ERP system development.

* Developed new freight booking via Electronic Data Interchange (EDI) that won multimillion-dollar contracts, 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 |

Design and implement defence capability software.

* Developed the Australian Collins Class Submarine combat system training software in C++ using design patterns, saving the company time and resources.

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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 Unix.
* Developed the first courier booking system in Australia via EDI using C on Unix, which won contracts with multimillion dollar customers, e.g., Ingram Micro, Foxtel, and Toyota.
* Reduced daily IT tasks by half and eliminated human error by automating tasks.

## Education

### **Master of Business Administration | University of Technology, Sydney**

Major: Project Management | Graduated 2007

### **Master of Computing | University of Western Sydney**

Major: Information Technology | Graduated 2000

### **Bachelor of Science | University of Sydney**

Major: Computer Science and Applied Mathematics | Graduated 1997

## Examples of work

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

Software Development : https://github.com/robertqhbui/LiftElevatorSystem