DUANE VAN TWEST
SOFTWARE ENGINEER

More than 25 years experience in developing large scale software engineering projects - playing an integral role in the delivery of major projects. Outstanding expertise in the design and development of real-time software applications. Involvement in multiple lean/agile driven tech startups incorporating a range of experience from system architect to company structure and roadmaps

Major projects are my passion and the opportunity to be involved from concept through to completion of projects is extremely satisfying. Simple, efficient and innovative solutions to existing problems that improve the experience of those interacting with the product.

≫ EXPERTISE

FULL STACK APPLICATIONS
- Hybrid Mobile Apps
- Restful APIs
- Payment Gateways
- Cloud Deployments
- Push Notifications

TECH STARTUPS
- Lean Methodologies
- Minimal Viable Product
- Company Structures
- Market Analysis
- Funding Models

SECURITY & CRYPTOGRAPHY
- Public Key Infrastructure (PKI)
- SSL & IPSEC
- Crypto Toolkits
- Certificate Technologies

REAL TIME CONTROL SYSTEMS
- SCADA
- Power Distribution
- Transportation
- Water & Gas Utilities

SAFETY CRITICAL SOFTWARE
- Mission Critical Operation
- Dual Redundant Systems
- High Availablity Software
- Railway Signalling
- Fault Tree Analysis

MAJOR PROJECTS
- On / Off Shore Deployments
- Requirements Specifications
- Technical Documentation
- Scrum Agile Methodolgies
- Project / Staff Management

LINUX DEVELOPMENT
- Embedded Systems
- Comms Protocols
- Device Drivers
- System Administration

BUSINESS APPLICATIONS
- Excel / Access Applications
- Timesheet Control
- Cost Accounting Allocation
- Safety Compliance Systems

≫ FRAMEWORKS & DEV OPS

- Angular
- Ionic
- Nodejs / Express
- MongoDB
- Laravel
- Firebase
- Heroku
- AWS

≫ PROGRAMMING

Language	Experience
C / C++	10+ YRS
JAVASCRIPT	2.5 YRS
PYTHON	3 YRS
HTML5 / CSS3	1.5 YRS
PHP	1 YR
ASSEMBLY	5 YRS
BASH / PERL	2 YRS

≫ STRENGTHS

+ Communication
+ Reliable
+ Dedicated
+ Loyal
+ Detailed

≫ CONTACT

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📞 0413 198 204

📍 West End Brisbane, Australia

≫ FULL RESUME

CV.DUANEVANTWEST.COM

≫ EXPERIENCE

TECHNICAL DIRECTOR,   KONTRACTOR
2015 - JUN 2018

Kontractor simplifies and transitions cumbersome work processes by partnering with established companies to create custom-made tech solutions primed for commercialisation.

Heartbeat *Captures the administrative requirements of franchisee compliance and deliver wider business enhancement opportunities and mitigate risk exposure for Craveable Brands multi-site frachisee such as Red Rooster*

Willow *Central compliance system targeting daily work flow around site prestart coverage in the construction industry*

CorChecks *Compliance system that ensures that the primary duty obligation under Chain of Responsibility (CoR) laws will pass the scrutiny of NHVR*

Tradfu *Tradfu is an innovative solution to linking trade services to customers based on location, schedules, job details*

SOFTWARE DEVELOPMENT ENGINEER,   SCHNEIDER ELECTRIC
2008 - 2014

Embedded Linux development for medium voltage overhead switchgear – from device drivers to comms protocols and switchgear application logic (Loop automation, Trip Protection, etc).
Complete design and implementation of automatic testing platform with full continuous integration environment.

SENIOR SOFTWARE ENGINEER,   RSA SECURITY
2000 - 2007

Develop cryptographic toolkits for encryption and certificate technologies. Thread safe C++ libraries with minimal CPU and memory footprints for a range of OS and hardware platforms.

SOFTWARE PROJECT ENGINEER,   FOXBORO / INVENSYS
1994 - 2000

SCADA systems for power and transportation industry. Major projects for Railtrak's West Cost Main Line (London to Edinburgh), Kowloon Canton Railway Corp (Hong Kong) and Powerlink Queensland - Customer Liaison, Onsite commissioning and off shore deployment

SOFTWARE DESIGN ENGINEER,   ABB SIGNAL
1991 - 1993

Team Lead role for design, development, installation and commissioning of Safety Critical Signaling equipment for Queensland Rail. SIL2 software system to interface and integrate SEL axle counters with General Railway Signals (GRS) Vital Processor Interlocking (VPI).

UK secondment to develop digital signal processing components for Track signaling equipment for British Rail. Design and code digital filtering software to protect track detection system from AC traction motor interference. Develop simulation and test data to verify complete system conformance.

≫ EDUCATION

BACHELOR OF ENGINEERING - ELECTRONICS (HONOURS)
1989

QUEENSLAND UNIVERSITY OF TECHNOLOGY (QUT)

Brisbane, Australia

Queensland Electricity Commision Prize
Highest academic achievement in the fields of Instrumentation and Control.

ASSOCIATE DIPLOMA OF ELECTRICAL ENGINEERING (Electronics and Industrial Systems)
1983

QUEENSLAND UNIVERSITY OF TECHNOLOGY (QUT)

Brisbane, Australia

Leeds & Northrup Prize (Foxboro / Invensys)
Highest academic achievement in the strand of Electronics and Industrail Systems

≫ INTERESTS

property   languages   travel   music   surfing   cycling   surf trips   running