

A44 COMPANY — Contractor Profile

Independent Controls, Software & Al-Accelerated Engineering Consultancy

Who I Am

I'm a multi-discipline engineering consultant specialising in control systems, full-stack software development, HMI/UI, and AI-accelerated engineering workflows across locomotives, agricultural machinery, off-highway equipment and industrial automation.

Core Expertise

Parker IQAN - MC43, MD4, XC41

Control logic, state machines, safety interlocks

Hybrid traction, HV bus & inverter control

BMS logic – SoC, thermal, protection strategies

CAN/J1939 architecture, diagnostics & DBC design

HMI development using Qt / MD4-7

Full-stack tooling - React, TypeScript, Electron, Node.js

Al-assisted debugging, workflows & automation

Consulting Services

Control system development & architecture

Hybrid traction logic & HV system integration

BMS modelling & protection logic

CAN/J1939 diagnostics & network design

HMI/Qt development for industrial systems

Deep debugging, diagnostics & project rescue

Full-stack tools, internal apps & automation

Al-engineering workflow integration

Industries Served

Hybrid/Electric Locomotives

Agricultural & Off-Highway Machinery

Industrial Automation & Hydraulics

EV/Hybrid R&D; Platforms

Robotics & Prototype Systems

Why Organisations Choose A44 Company

Cross-discipline skillset - Controls, HMI, Software & Al

Rapid onboarding, minimal oversight required

Strong analytical communication & documentation

Al-accelerated workflows & rapid turnaround

Outside IR35 • PI Insured • Remote-first consultancy

Contact

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