Carl Gray

Mechanical Engineer

Carl is degree trained in motorsport engineering along with being apprentice trained in a mechanical background (Automotive), to which he has successfully applied his skills in the Automotive, Mining and Rail industry exceeding in positions such as:

* Overhaul of all aspects of both Automotive and Railway vehicles.
* Repair work to high work standard with attention to detail (Automotive, Railway and Mining Crushers)
* Capable of light and heavy engine analysis, diagnosis and repair (Automotive and Mining Crushers).
* Rail car interior strip and refit, including new builds, restorations or overhauls.
* Traction motors - disassemble, repair and rebuild.
* Servicing of all types: Exam A, B, C, Running exams and brake tests also including replacement of Turbochargerss, power packs, generators and slip rings.
* Factory and aftermarket updates and modifications (Automotive, Railway and Mining Crushers)
* Working with internal and customer inspectors to rectify any problems or snags.
* Complete overhaul of bogie systems (Railway)
* Excellent knowledge of rail car construction and fabrication.
* Able to quickly develop efficient work practices and procedures.
* Proficient at welding, metal fabrication and machining.
* Skilled in the manufacture and installation of wiring looms and electrical components.

With Carl being degree trained he has considerable knowledge in the following:

* Computer Aided Design – The ability to create working models and carrying out full FEA analysis.
* Simulation software involving the construction of engines and suspension systems.
* Excellent engine theory knowledge and in-depth understanding of chassis design.
* Design Materials and Manufacturing Process - including the process of how materials and components are made, the environmental impact, cost over function, Use of CES, DMFAA, VAVE.
* Machining - wide range of machining equipment, from gear cutters, lathes, milling machines, grinders and pipe benders

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