UFR | Universal Field Robots

UFRautonomy™

UFRautonomy rapidly delivers autonomous solutions in record time by utilising software, hardware, mechanical engineering capabilities, combined with our knowledge and experience.

Trucks, excavators, ATV's, and loaders are transformed into autonomous and tele-operable machines upgraded to perform a wide variety of tasks with and without human interaction.

We deliver OEM agnostic solutions designed to perform in rugged, challenging environments. This means that you can remove significant safety risk to manual operators, reduce WHS risks, improve workflow and add to your bottom line.

UFR will be your partner in autonomous solutions.

CUSTOMER CHALLENGES

Mixed Fleets

Majority of our customers employ a best-in-class approach to purchasing heavy equipment rather than putting a heavy reliance on a single OEM supplier. This really limits their ability to rapidly deploy autonomous solutions offered by OEMs. Most OEM autonomous solutions are designed to work only with their brand of equipment.

UFRautonomy was designed to be OEM agnostic and can be applied to any heavy equipment platform. This allows our customers to start the autonomous journey with existing equipment, without having to budget for a fleet of new equipment. When integrating UFRautonomy with an existing piece of heavy equipment, UFR maintains the integrity of the equipment.

By leveraging cutting-edge technology and software, UFRautonomy is helping to create a safer, more productive workplace.

Continuous Improvement

Deploying autonomous solutions in a production environment requires ongoing engagement, support and continuous improvement.

UFRautonomy includes a software module that collects vital performance data from the machines. This allows UFR to work closely with the customer to fine tune the machine behaviours to achieve optimal performance. This is a vital part of a continuous improvement cycle.

HOW IT WORKS

UFRautonomy enables the rapid development of the major robotic functions that allows any platform to work tele-remote or autonomously.

We then work with the customer to define and design a specific application layer that allows the robotic machine to solve the customer's problem. This includes a customised user interface and functionalities such as mission planning,

The last critical step is the integration of the machines with the site's systems such as the safety system and the traffic management system.