

Company

PROJECT REM Limited (trading as Fishbone Solutions)

SME | Derby

Industry: engineering consultancy as a service to the transportation sectors (rail, automotive and aviation).



Academics

Ashiq Anjum

Professor at the School of Computing and Mathematic Sciences with expertise in distributed systems.



Lu Liu

Professor at the School of Computing and Mathematical Sciences with expertise in AI, Data Science, Sustainable Systems and the Internet of Things.



Associate

Craig Bower

Research Associate in Data Analytics

Background: PhD candidate in Online Machine Learning



Project Aim

To develop a cloud based remote asset condition monitoring solution using innovative approaches to real-time data analysis including AI, ML, Edge and Cloud computing techniques for predictive failure, maintenance optimisation and diagnostics applications on Rail, Road and Construction vehicles.

Fishbone Solutions provides consultancy services to the Rail, Automotive and Aviation sectors. In 2020, work focused on understanding train performance using data analysis. The company then decided to integrate these novel technologies into a cloud-based, software product, called 'FISH', to provide remote condition monitoring of rail assets.

This KTP was strategic because it allowed the company to adopt a standard software 'build once, sell many' business model and leverage the company out of the trap of selling customised services solutions.

Project Outcomes

The KTP has directly enabled the business to add a new product – the FISH (Fishbone Information Services Hub) – which is a completely new service and product line. Alongside the Company's existing engineering consultancy, the business is now able to promote and sell a software product, not only to its existing market segments but potentially to other industries and sectors including and not limited to Aerospace, Defence and Maritime.

The KTP also provides Fishbone with the strategy to explore other markets and sectors because the software tool developed on the KTP was designed to be agnostic (from a data point of view) meaning it is transferable and saleable into almost any market or sector where fixed and moving assets generating data from IoT and instrumentation require a data analytics engine and dashboard.

The KTP fundamentally accelerated the company and staff's capabilities in two key areas: Software Product development and Data Analytics as a Service.

Find out how KTP can help your business. Contact KTP@le.ac.uk