

# Case Study

## IT Solutions: Building Smarter Business

We provide cutting-edge technology solutions along with unparalleled expertise to ensure you have the best connected solutions for effortless efficiency and productivity.

### CHALLENGE

Ilmor Engineering Ltd is a renowned engineering company specialising in the design, development, and manufacturing of high-performance engines. Founded in 1983, the company has a rich history of innovation and success in the motorsport industry, particularly in Formula One and IndyCar racing. Ilmor is known for its precision engineering and ability to deliver bespoke solutions tailored to the specific needs of racing teams and automotive manufacturers.

Recognising the constraints of a Classic ASP application previously used to manage their engine construction processes—which lacked the essential functionality and scalability needed for the varied demands of building different engine types—Ilmor invested in a modern solution to align with their evolving business needs and ensure future scalability.

### SOLUTION

Paradise Computing developed a bespoke replacement system tailored to Ilmor's specific requirements. This solution integrated a SQL database with a user-friendly web interface that largely mirrored the functionality of the previous system, incorporating only essential adjustments to better align with Ilmor's current operations. Notably, Paradise introduced a custom form builder enabling the construction of engines of any size with various serialisable components, alongside a feature for tracking component data. Additionally, a licensing module was established, granting Ilmor the ability to manage system access across their group companies and facilitate in-house reporting through open access to SQL data. This system also supports data importation, event-triggered email notifications, and ongoing enhancements derived from user feedback. Initially housed on an on-premise office server, the database transitioned to Paradise's Azure-hosted platform in 2022 to improve access for Ilmor's US-based sister company and ensure the system operated on a supported Microsoft environment, avoiding the need to replace LAN servers.

### RESULT

Ilmor now operates a fully bespoke, web-based engine building system designed around their precise needs. The system empowers Ilmor with complete control over access permissions, extending usage to affiliated companies within their group as desired. The transition to the web-based platform has not only facilitated international collaboration, particularly with their US sister company but also eliminated ongoing license and subscription costs, in line with Paradise's development model. Moreover, the cloud hosting solution ensures global accessibility and reliability, supported by Microsoft's robust infrastructure. This adaptive system can continue to evolve in the future, with Paradise and Ilmor able to collaboratively work together to add any updates or additional functionality as needs adapt and grow.



### About

## Ilmor Engineering

#### Industry

Ilmor create high-performance powertrains for motorsports

#### Company Size

Between £2 to £10 million turnover

#### Number of Employees

Between 10 to 50 employees

#### Location

Brixworth, Northamptonshire, UK



It was a privilege to support Ilmor Engineering, enhancing their production capabilities. This project is a testament to Ilmor's commitment to excellence and innovation. We were dedicated to providing a solution that seamlessly integrates with their existing processes, ensuring they can continue to lead in precision engine manufacturing with increased efficiency and scalability

Kevin Ritchie  
Development Director, Paradise Computing



ERP  
Solutions



Bespoke  
Development



Cloud  
Hosting