

About

We partner at all Design, Prototype, Engineering and Technology development levels. From design programmes to prototype vehicles and engineering deployment, VITAL works discreetly with OEMs and Start-ups to develop new vehicles.

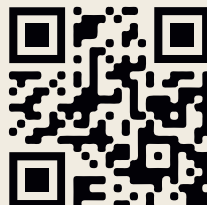
Formed in Coventry 2015, Vital Auto has a traditional garage origin story. From humble beginnings, our founders, driven by a love for design and engineering, have consistently fostered a spirit of creativity and an unwavering commitment to improving our practices.

By nurturing our process alongside cutting-edge technologies, we've ventured into uncharted territory, creating new and novel approaches within the design landscape. We've succeeded in 3D printing entire vehicle models using compostable materials, optimised manufacturing processes for faster and more efficient sub-assemblies, and even developed in-house ergonomic software to speed up design and engineering reviews for our world class OEM clients.

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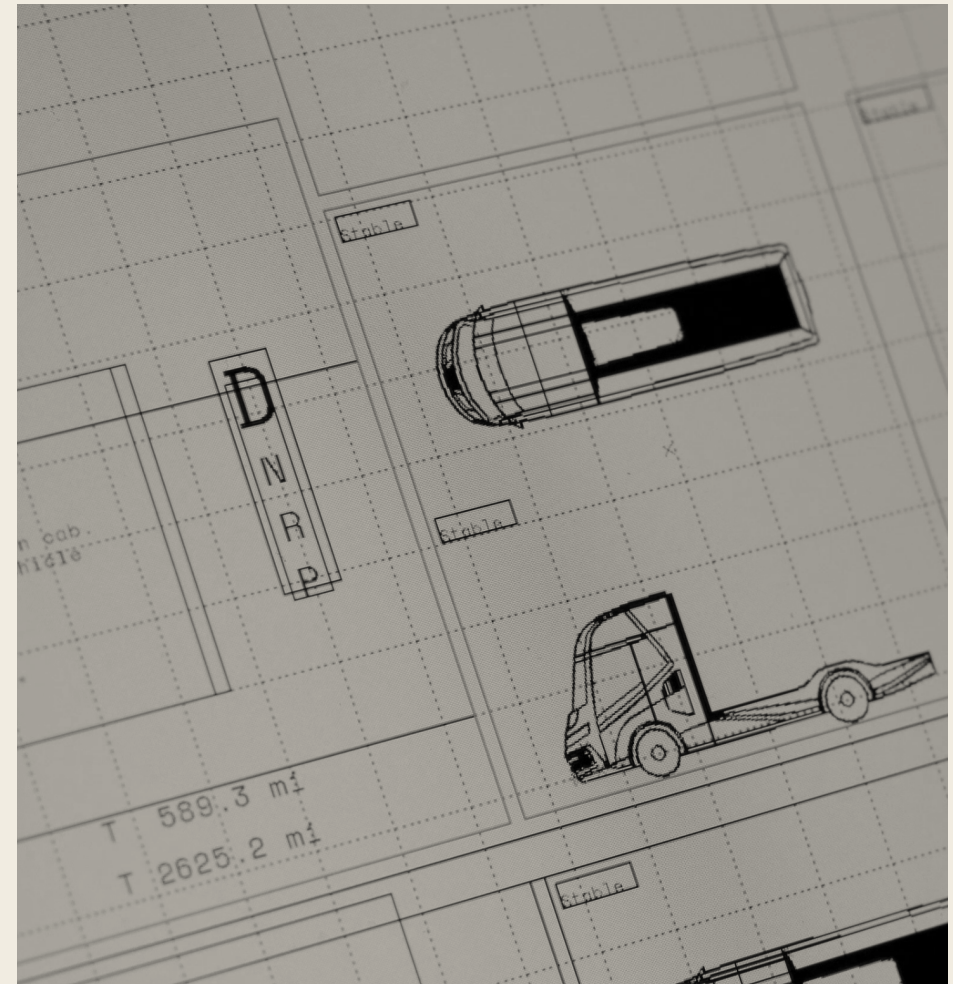


Vital

HMI
Service Manual

COLLECTION NUMBER
03 - 06

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HMI Capability

Vital specialises in user-centric Human-Machine Interface (HMI) development for the automotive and transport industry. We are dedicated to creating completely new-to-world HMIs and seamlessly deploying them in vehicles. We guarantee exceptional user experiences and unmatched functionality and offer an end-to-end service with full electrical integration.

We have developed HMIs and apps for both global OEMs and ambitious startups. We understand the intricacies of integrating these HMIs with various vehicle systems using both general computing platforms and OEM specific CANBUS integration, we ensure seamless connectivity and optimal performance. From concept generation to the delivery of finished products, we work closely with our clients to ensure the HMI design is in line with the design DNA of the vehicle.

One of our key strengths lies in our ability to provide near-production prototype realism and functional performance, even at the earliest stages of design. This means that our clients can experience and evaluate the HMI's performance, usability, and visual aesthetics before committing to the final production phase.

By simulating the real-world environment, we can fine-tune the HMI and run the programme in line with vehicle development in order to compress time and cost.

HMI Services

- Concept generation
- Content creation
- Digital interaction prototyping
- Digital system vehicle integration
- End-to-end HMI development
- Functional hardware prototyping
- Hardware sourcing
- In-depth usability testing
- Innovation sprints
- Integration with mobile vendor platform ecosystems
- Offboard apps
- User experience (UX) design & interaction optimisation
- Vehicle systems & low voltage integration
- Visual design

