Indulge in Future-proof HMI Experiences!

Human Machine Interfaces (HMIs) have undergone a major transformation across industries.

But what is the driving force behind this transformation? Increased demand for personalized experience, convenience endowed by cutting-edge technology, and the gamut of connectivity options available today.

In Industry 4.0, HMI allows operators to interact with a system by enabling seamless information exchange. In the automotive landscape, a new-generation of HMIs that are more fluid and contextual to the ever-expanding capabilities offered by connected vehicles have become mainstream.
Embitel’s Industry Experience

Global businesses seeking User Interface innovation have collaborated with Embitel to leverage the expertise of our HMI design engineers. Our dedicated team of UI/UX design champions deliver intuitive, operator-centric, cloud-based HMI designs for various industries.

**Automotive** – Design 3D displays for futuristic automotive cockpits, including In-Vehicle Infotainment HMI and UI for Digital Instrument Cluster.

**Industry 4.0** – Optimise industrial processes by digital conversion and centralization of data for users. Crucial information can be displayed in charts/graphs/dashboards, alarms can be triggered, and multiple systems can be interconnected through one HMI.

**Healthcare & Wellness** – Integrate portable, scalable embedded HMIs with web application to realize connected healthcare & wellness applications that enable remote patient monitoring & personal wellbeing.

**SELECTED SUCCESS STORIES**

**3D HMI Development**
- Visualization & analysis of complex molecular structures in 3D environment using Qt OpenGL
- Creation of virtual environments as input to test Autonomous cars using Unity 3D
- 3D HMI in 2D applications

**Multi-modal HMI for PC, Web & Mobile Interfaces**
- Fortified with Voice Recognition & Gesture Control, Screen graphics optimisation on target platform, Boot up & performance optimisation

**TECHNOLOGIES EXPERTISE**

- **Platforms** – Android, iOS, Windows, Linux, MAC
- **Frameworks** – Qt, QML, OpenGL, HTML5, .Net, React, React Native, Android UI
- **Programming Languages** – C++, Java, React JS, Kotlin, Swift, Python

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