



# Multi-Platform & Multilingual HMI/UI Development

## *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.

# Embital's Industry Experience

Global businesses seeking User Interface innovation have collaborated with Embital 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