

Automotive HMI Design and AI assisted UI/UX automation

Experience Candera's latest HMI technologies at Automotive World Tokyo, 20th - 22th January, 2021

Tokyo/Japan, January 14th, 2021--- Automotive World Tokyo 2021 is the largest exhibition for the advanced automotive technologies worldwide, taking place from 20th to 22th January, 2021 at Tokyo Big Sight / Japan. In South Hall, booth S4-19 Candera will be presenting the latest novelties in the fields of Automotive HMI design and Embedded Software and will introduce a brand-new feature of CGI Studio, enabling rapid and AI assisted HMI creation.



PLEASE NOTE: Due to the current COVID-19 situation, Candera places the highest priority on safety and health of its team. Therefore, the Candera management has decided to not send any of its team members to the show and to the physical booth. However, the booth will be equipped with the maximum information possible about the latest products of Candera based on demo descriptions, movies, leaflets and many more - so it is absolutely worth visiting the physical booth. If you're not planning to attend the show, all information will also be available at the virtual booth.

Created with Candera's HMI design tool CGI Studio, at Automotive World 2021 Candera will present a mix of different HMI solutions based on various embedded devices – from low-end MCUs to high end SOCs. The highlights will include MCU solutions like Cypress S6J3200 and Traveo II MCU, HMIs based on Functional Safety as well as complex and holistic GUI applications running on high-end SOCs like Renesas.

Furthermore, Candera will introduce CGI Studio's Smart Photoshop Importer, a brand-new feature, enabling a rapid and automated HMI creation.

AI based Smart Photoshop Importer

Based on innovative AI detection algorithm technologies, Candera's Smart Photoshop Importer has one major goal: to speed up the whole HMI creation process. In fact, this new feature enables to rapidly import Photoshop files into CGI Studio in order to automatically transform them into full functional HMIs. The technology behind this tool is an AI based UI/UX element detection and mapping technology that will help especially designers and graphic artists to save precious time and costs.



Image 1: Smart Photoshop importer automatically turns your UIs in full functional HMIs

More information about the Smart Photoshop Importer at the Candera booth as well as within Candera's online presentation about Smart HMI development, available at the event's website during the exhibition.

Traveo™ II MCU

Candera's CGI Studio has been the HMI creation tool of choice when it comes to developing powerful HMI solutions on embedded Graphic MCUs for cost sensitive applications. At Automotive World Candera proudly presents CGI Studio, running on Cypress' Traveo™ II automotive MCU, that supports all available features of this capable device like multi-core, as well as all-render modes – from IBO, LBO to OTF.

Innovative AR solutions

With the growing number of vehicles on the road the need for safety and reduced driver distraction is one of the most important factors driving the integration of AR solutions for HUDs and CIDs in the automotive market. Candera has been partnering with renowned companies in order to develop modern AR solutions based on CGI Studio.



Image 2: AR-HUDs are considering both: the driver's situation as well as the traffic environment.

Holi(stic) HMI Solution

Holistic HMIs will not only have the ability to perfectly interact and communicate with each other, they will be able to connect with nomadic devices (e.g. Apple CarPlay, Google Android Auto) and consider both: the driver's situation as well as the traffic environment.



Image 3: Holistic HMIs enable a perfect interaction and communication between multiple displays

Candera's Holi Solution has been created with CGI Studio and will show, how multiple displays are perfectly interacting and communicating with each other. This is possible due to Candera's powerful messaging and data binding tool Courier Interaction Framework for smooth interaction between the HMI application and external data sources.

Apart from the Holistic HMI approach Candera will showcase several other innovative HMI solutions for the Automotive industry, like an Android based solution, full digital cluster solutions based on Functional Safety (ISO 26262) as well as automotive HMI solutions combining both, analog and digital elements (to demonstrate the perfect salability of CGI Studio).

Online Presentation: Smart HMI development

The Candera team is excited to invite you to its online presentation about Smart HMI Development – AI assisted UI/UX automation. In this presentation attendees will learn more about Candera's Smart Photoshop Importer and how this feature can especially support graphical artists and designers with no programming skills to automatically create full functional HMIs. More information and free registering on:

<https://www.automotiveworld.jp/en-gb.html>

Based on our 20 years of experience in the embedded software development together with our broad customer base we have created a mature feature-rich and customizable product. In fact, CGI Studio today covers all aspects of automotive GUI development and beyond. Furthermore, we're closely working together with our customers and industry partners to provide solutions for present and future HMI needs.

Candera providing HMI solutions with 50 million units installed

https://www.artspark.co.jp/en/candera_interview/

About Candra

Candra, is a leading HMI tool provider and development partner for worldwide automotive and industrial customers.

Candra supports its customers with the CGI Studio tool environment as well as provision of software services mainly in the areas of HMI development and embedded software.

Candra GmbH in Linz/ Austria and Candra Japan Inc. in Shinjuku-ku, Tokyo / Japan are both part of the ArtSpark Group situated in Shinjuku-ku, Tokyo / Japan.

Corporate site : <https://cgistudio.at/>

Candra Japan site : <https://www.canderajp.co.jp/>

Facebook : <https://www.facebook.com/canderacgistudio/>

YouTube : https://www.youtube.com/channel/UCZyzdK8yFY52Ot-SvaGkM_A

Twitter : <https://twitter.com/CandraGmbH>

Linkedin : <https://www.linkedin.com/company/candra-cgistudio/>

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