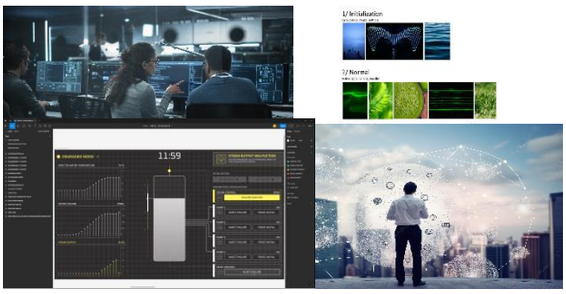
Ansys
EMBEDDED SOFTWARE

Smart Boiler Control

Energy & Industrial

Demo Brief

In response to the evolving landscape of Human-Machine Interfaces (HMIs), Ansys SCADE proudly presents the modernization journey of the Smart Boiler Control interface. The demo showcases how our collaborative efforts, leveraging the power of Ansys SCADE Suite and Ansys SCADE Display, have revitalized the user experience and visual aesthetics of this critical system.



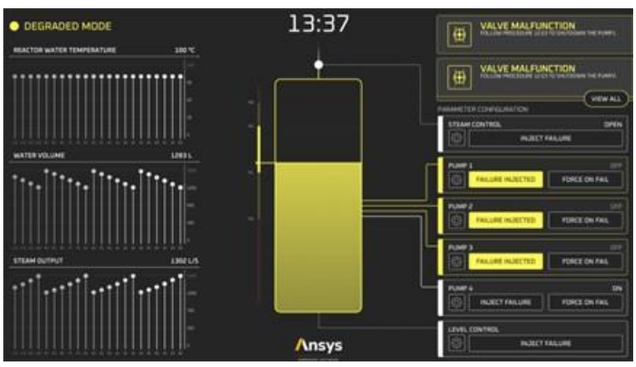
Collaborative work approach

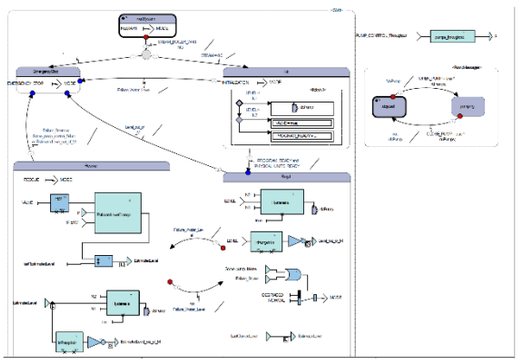
- Engineers and designers synergizing ideas to reimagine the user experience.
- Structuring the foundation with wireframes, ensuring a seamless user flow.
- Utilizing Figma* for interactive prototypes to simulate real-world user interactions.

Embedded HMI design

- Ansys SCADE Display empowers users with a versatile graphics design and development environment for embedded Human Machine Interfaces (HMI).

- With a native support for the OpenGL® SC (Safety Critical) and ES (Embedded System) standards, Ansys SCADE Display represents a new generation of graphics software development tools, spanning prototyping, display design, simulation, verification and validation, and certified automatic code generation supporting several safety standards in a certifiable environment.





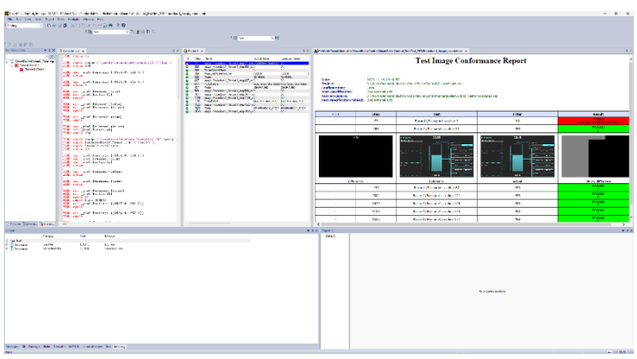
Safety Critical Software Development

- Design software functions and algorithms visually using diagrams, execute your software for debug and simulation and verify/validate your software at model level

- Automatically generate your embedded code with automated compliance to safety certification objectives up to the highest safety level.

Embedded HMI Software Design Verification

• SCADE Test provides a full automated testing environment, enabling significant cost savings with coverage measures and qualified reports
• Scenario recording and execution, easing non regression testing, automatic image comparison
• Model-based test cases created for host testing are reused to perform model-level coverage analysis.



*Figma: Collaborative application for interface design

Products Used

Ansys SCADE SUITE

Ansys SCADE DISPLAY

Ansys SCADE TEST