ENERGY OF THE FUTURE | ENERGY 4.0

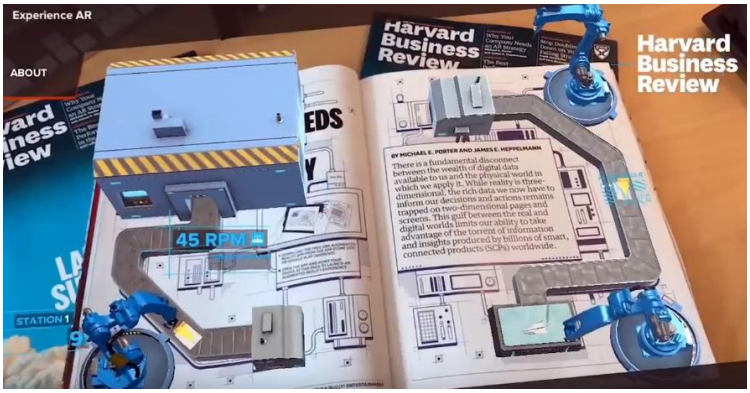
Optional Features

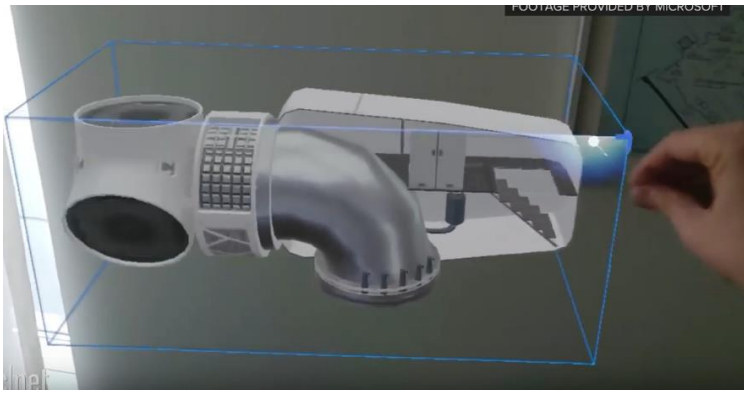
Our solutions integrate the 4 leading industrial technologies:

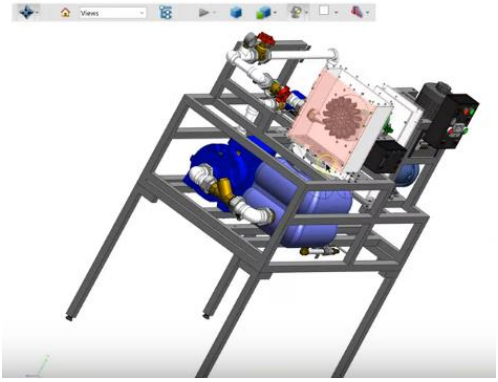
Augmented Reality

- 3D Models of the trainer's modules
- Digital Twin of the trainers
- AR for IIoT features
- AR User Manual
- Monitoring and Control from AR models

YouTube Playlist Link: https://youtu.be/Ktgr5Looad4

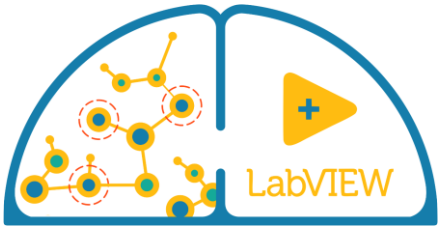






Artificial Intelligence (Machine Learning, Deep Learning, Neural Networks)

- Simple Regression
- Simple Classification
- 1D signal classification
- 1D Signal Regression
- Image Recognition
- AI based power quality analyses
  - Voltage, current – RMS, Frequency
  - Harmonics (up to 64th order)
  - Active, reactive and apparent power
  - Power factor
  - Vector diagram



NATIONAL INSTRUMENTS Silver Alliance Partner

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Industrial IoT

- Introduction to Sensors and Actuators
- Introduction to Data Acquisition and Control
- Conversion of Sensor's Data to Physical Quantities
- Statistical Analysis
- Transmission and Reception of Data
- PLE Trainers bidirectional data communications with IIoT gateways

Mixed Power Microgrids

- FPGA based Real Time HIL
- Simulation of various generation plants
- Simulation of power transmission and distribution
- Simulation of complex loads
- Simulation of a network grid
- Real Power In the Loop
- Mixed-grid trainer by mixed combination of PLE hardware trainers with HIL systems