

Project examples: test automation by a swinger test bed

- The test bed has the following components:
 - Swinger with its control system (Company TIRA).
 - Power supply for charging and discharging (Company ERS).
 - Climate chamber (Company CTS).
 - Electrochemical Energy Storage System (EESS) including the Battery Management System (BMS)
 - Laptop with CANalyzer Software (Company Vector)
 - PCAN-MIO (Company Peak)
 - Watchdog (Including Siemens Logo)
 - 2x CAN cards VN1630 (Company Vector)
- Main component is the swinger.
- Using the climate chamber the temperature can be changed during the vibration test.
- Using the ERS the EESS can be charged and discharged during the vibration test.
- The laptop with the CANalyzer Software is the central control of the test bed.
- The PCAN-MIO is used as a gateway between the Watchdog and the CANalyzer Software.
- The Watchdog supervises the test bed and drives it in a secure state if any error occurs.

