Application *FlexSensor*

Measurement Routine (2)	Capturing Device (5*)	ADC/Oscilloscope
User defined routine	*Capturing Device control*	*Device API (Python)*

Main GUI (1)	Laser (4*)	Tunable Light Source
GUI	*Laser Device control*	*Device API (Python)*

Others/ Measured Data	Prober (3)	SiPh Probe System
Data & Post-Processing	*Probing System & SiPh control*	*Velox® Python API*

Hardware Interface

Bidirectional . module data exchange (Signal/Slots)

Bidirectional process data exchang (shared variables)

Data exchange beween software and external Hardware (API calls)

Main GUI (1)
Graphical User Interface, allows visualizing states and configuring application

Measurement Routine (2)
Custom defined routine for conducting the measurement. Running in own thread

HW Python Modules (3-5)
(**4***, **5***): Python modules within own process for controlling external hardware (**3**): The prober module for controlling the probing system (chuck, optical movement system)

Other Python Modules
Python Modules for e.g., data handeling, post processing or file handeling

External Interface (API)
API or SDK for interfacing external hardware.