Hardware Abstraction Layer Definition

IQ Toolkit Calibration Plate Changer

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Version

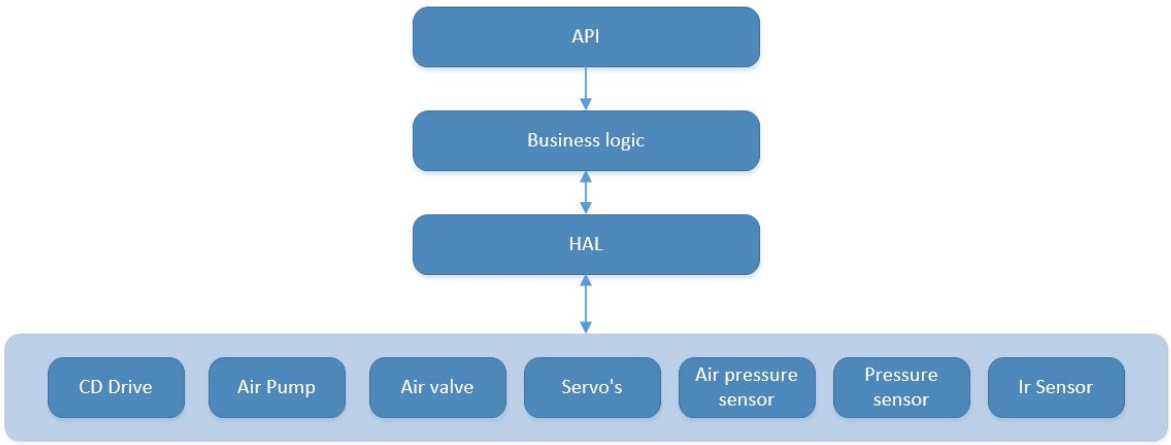
Version	Date	Author(s)	Changes	Status
1.0	23-03-2017	KB, RWT	Document creation	In progress
1.1				
1.2				
1.3				
1.4				
1.5				

Distribution

Version	Date	To

Hardware Abstraction Layer Definition

The HAL (Hardware abstraction layer) is the layer that communicates between the Business logic layer and the hardware on the embedded system. The functions and commands are defined in the table below.



Function	from Business logic	To hardware
Open CD drive	Result OpenDrive(int drive)	Enable pin (drive) for 1 second
Close CD drive	Result CloseDrive(int drive)	Enable pin (drive) for 1 second
Enable vacuum	Result EnableVacuum()	Enable pin (pump)
Disable vacuum	Result DisableVacuum()	Enable pin (valve)
Move servo	Result MoveArm(Coord Coord)	Moves the servos.