

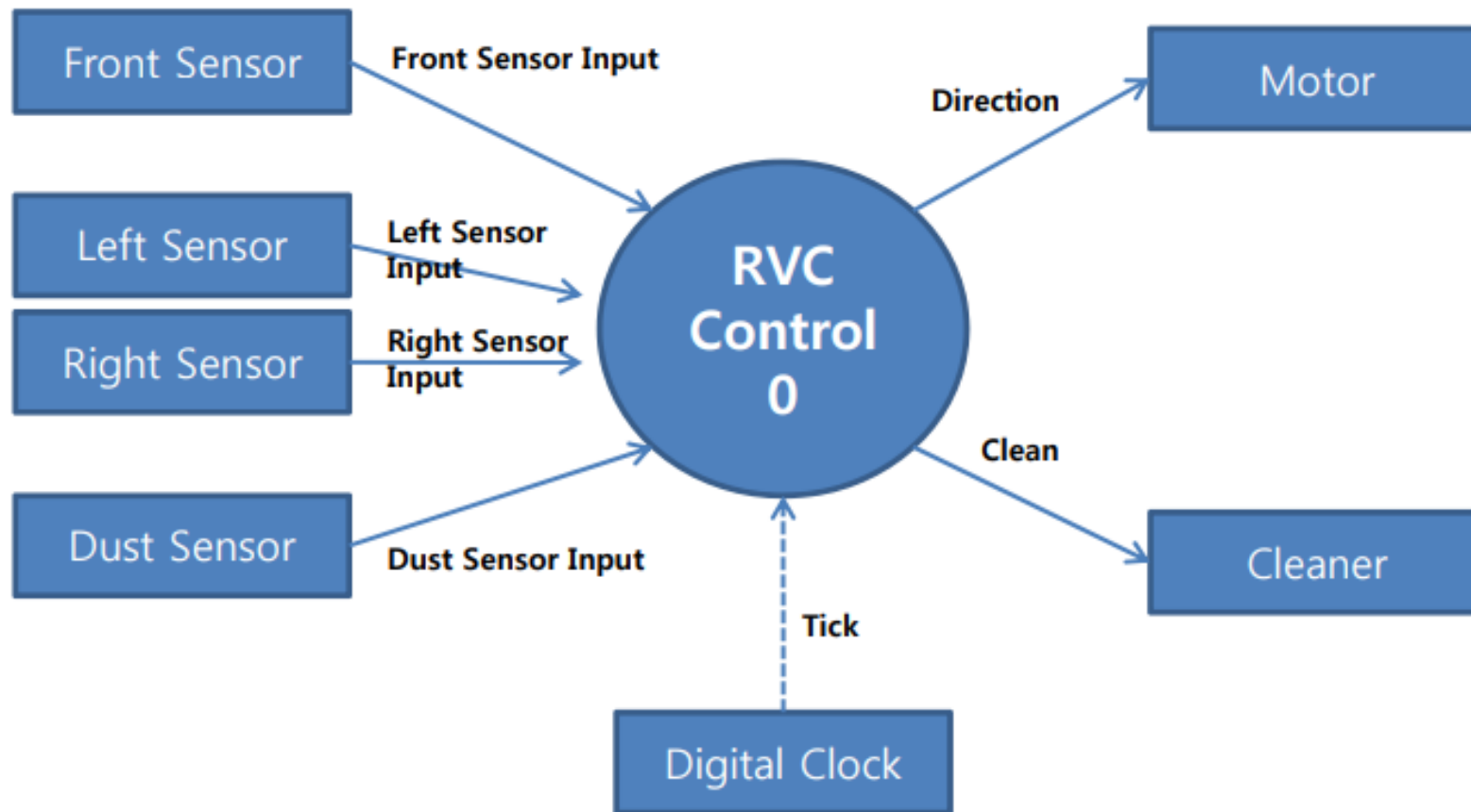


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컴퓨터 공학과

전다운

DFD Level 0 –RVC

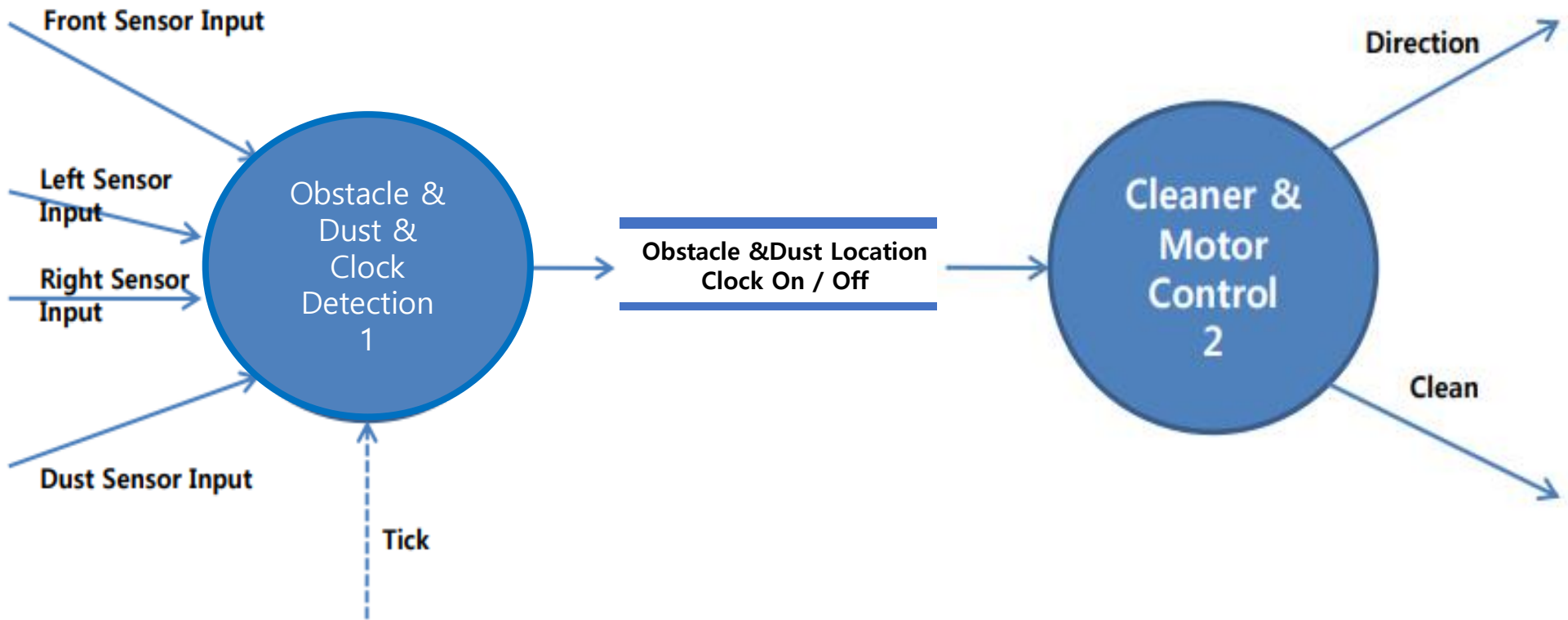


DFD Level 0 –RVC Example

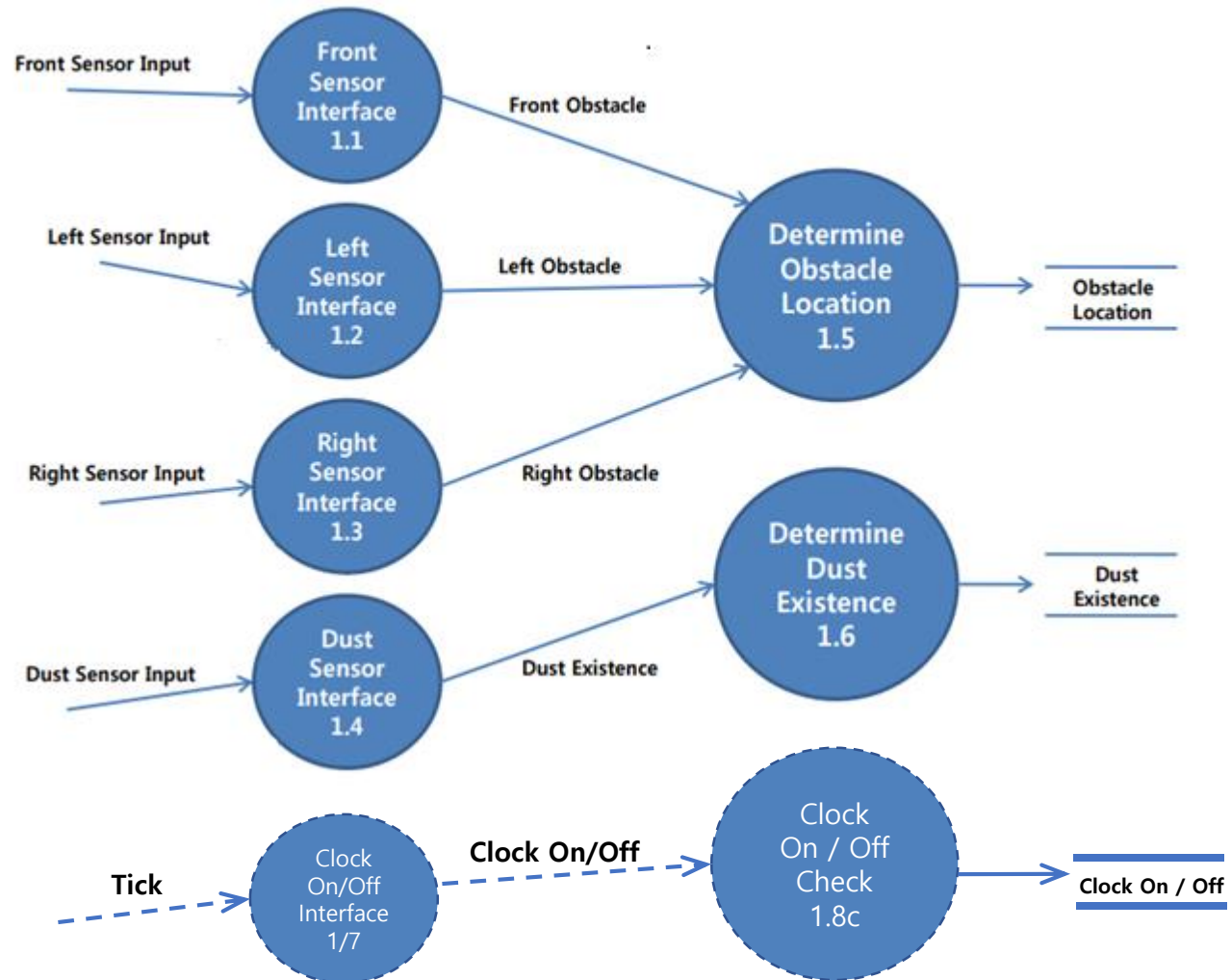
Data Dictionary

Input/ Output Event	Description	Format/Type
Front Sensor Input	Detects obstacles in front of the RVC	True / False , Interrupt
Left Sensor	Detects obstacles in the left side of the RVC periodically	True / False , Periodic
Right Sensor Input	Detects obstacles in the right side of the RVC periodically	True / False , Periodic
Dust Sensor Input	Detects dust on the floor periodically	True / False , Periodic
Direction	Direction commands to the motor (go forward / turn left with an angle / turn right with an angle)	Forward / Left / Right / Stop
Clean	Turn off / Turn on/ Power-Up	On / Off / Up
Tick	Clock on/ Clock off	On / off

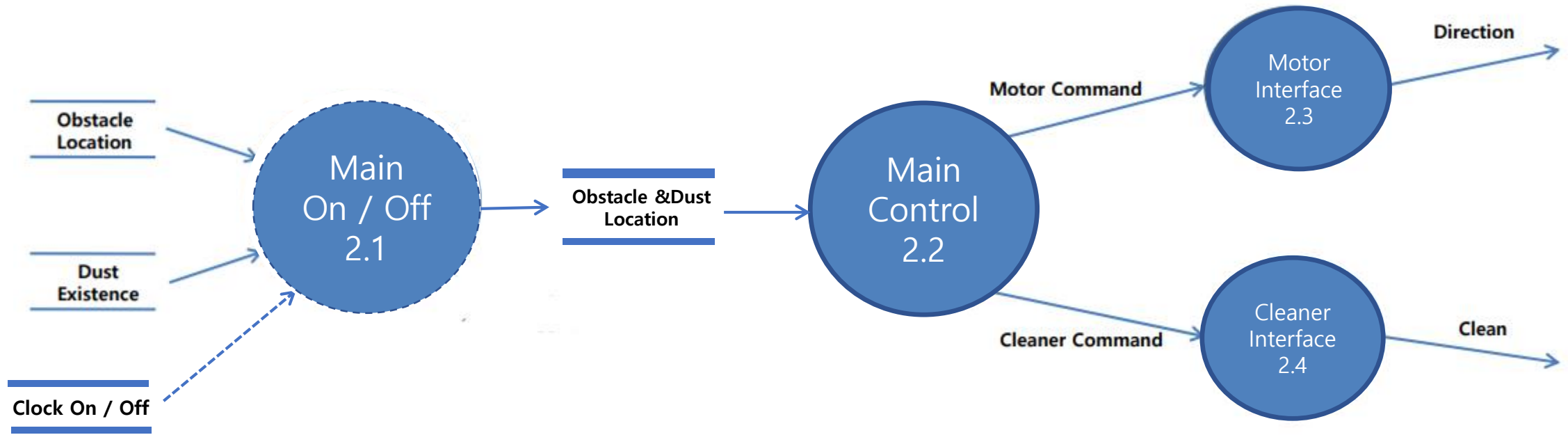
DFD Level 1 -RVC



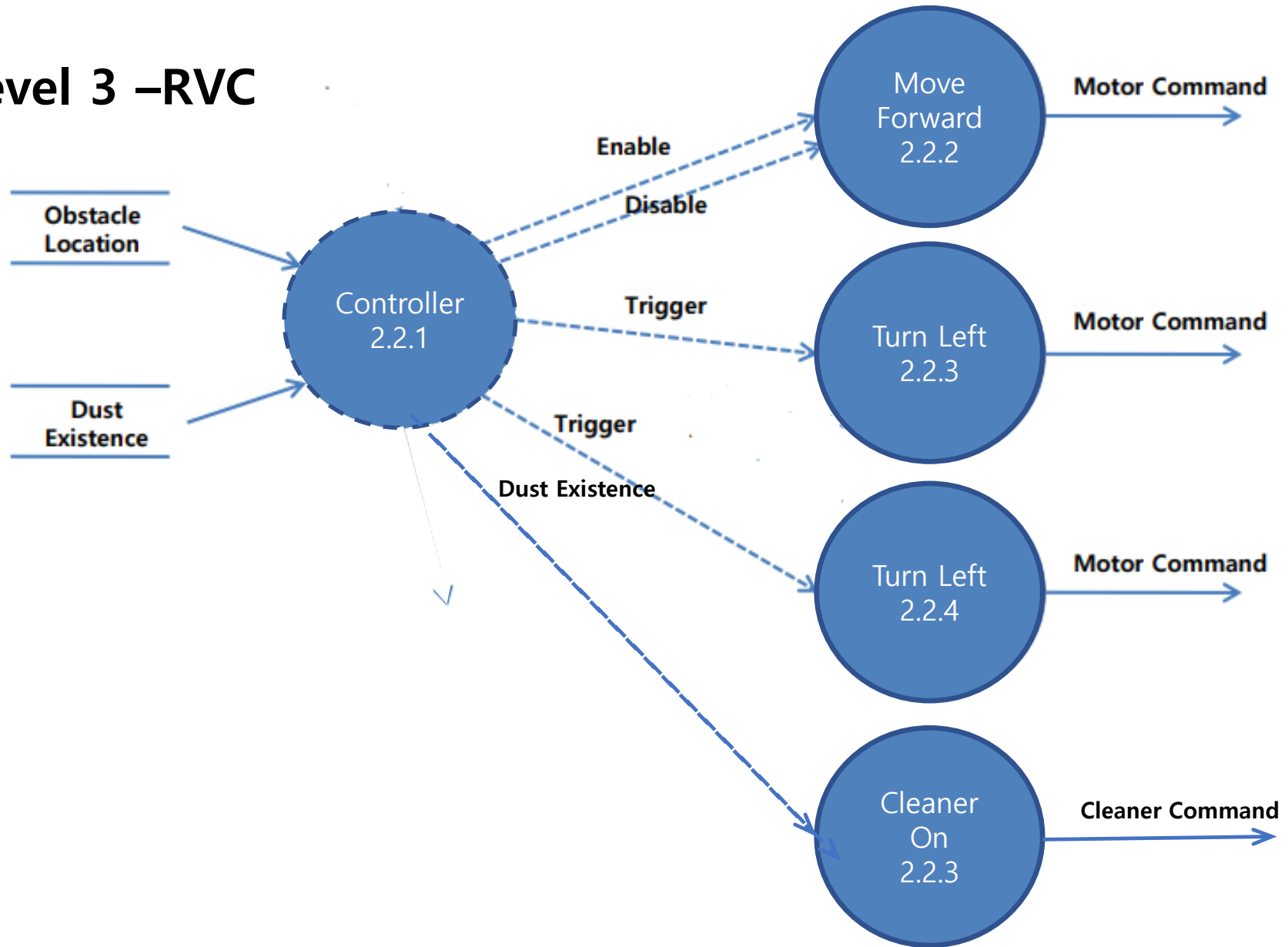
DFD Level 2 –RVC



DFD Level 2 –RVC



DFD Level 3 –RVC



DFD Level 4 –RVC

State Transition Diagram for Controller 2.2.1

