

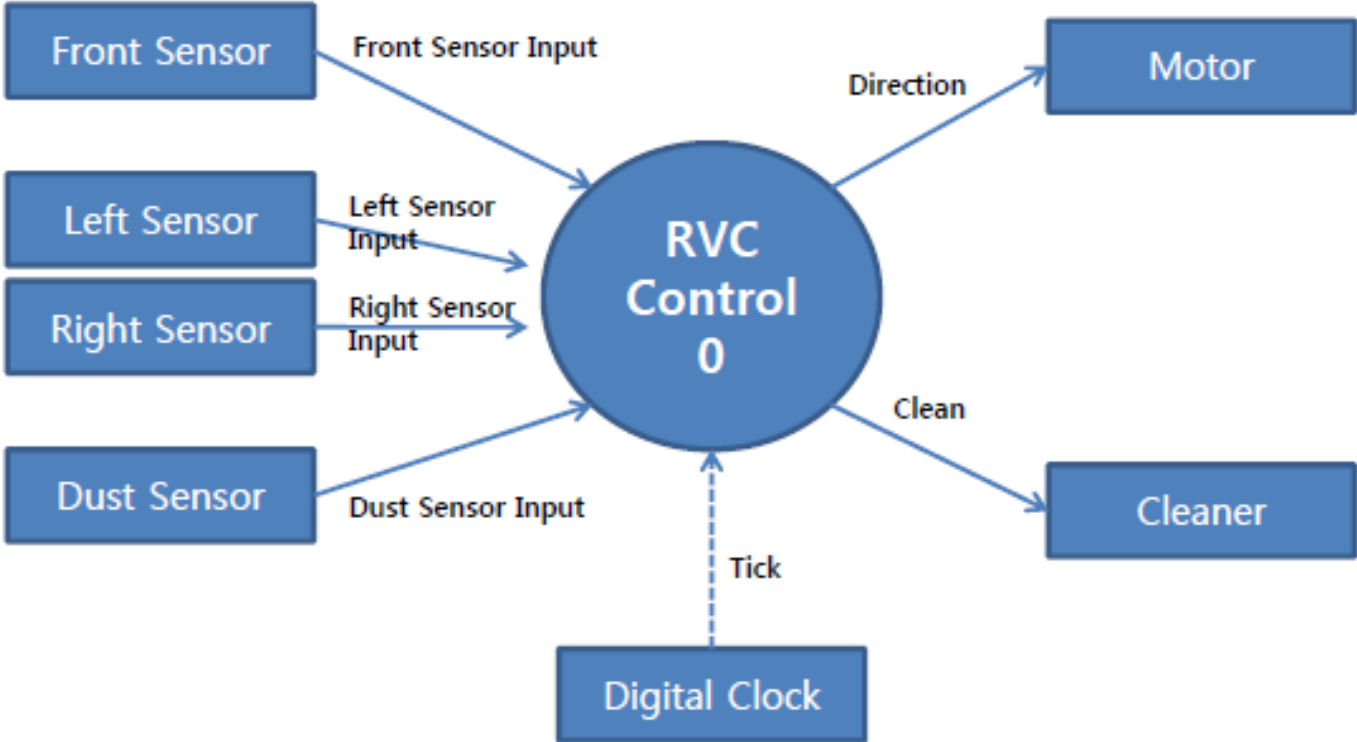
RVC 과제

컴퓨터공학과

201311272

나경수

DFD Level 0 – RVC Example

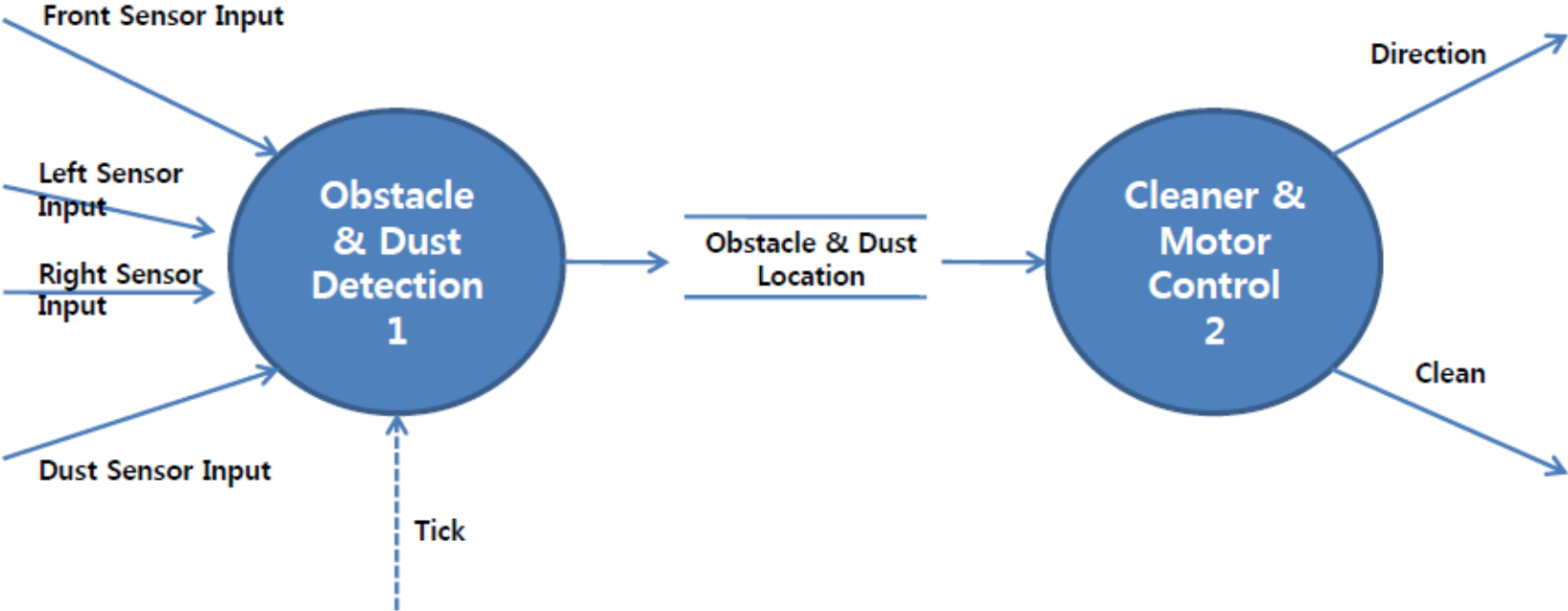


DFD Level 0 – RVC Example

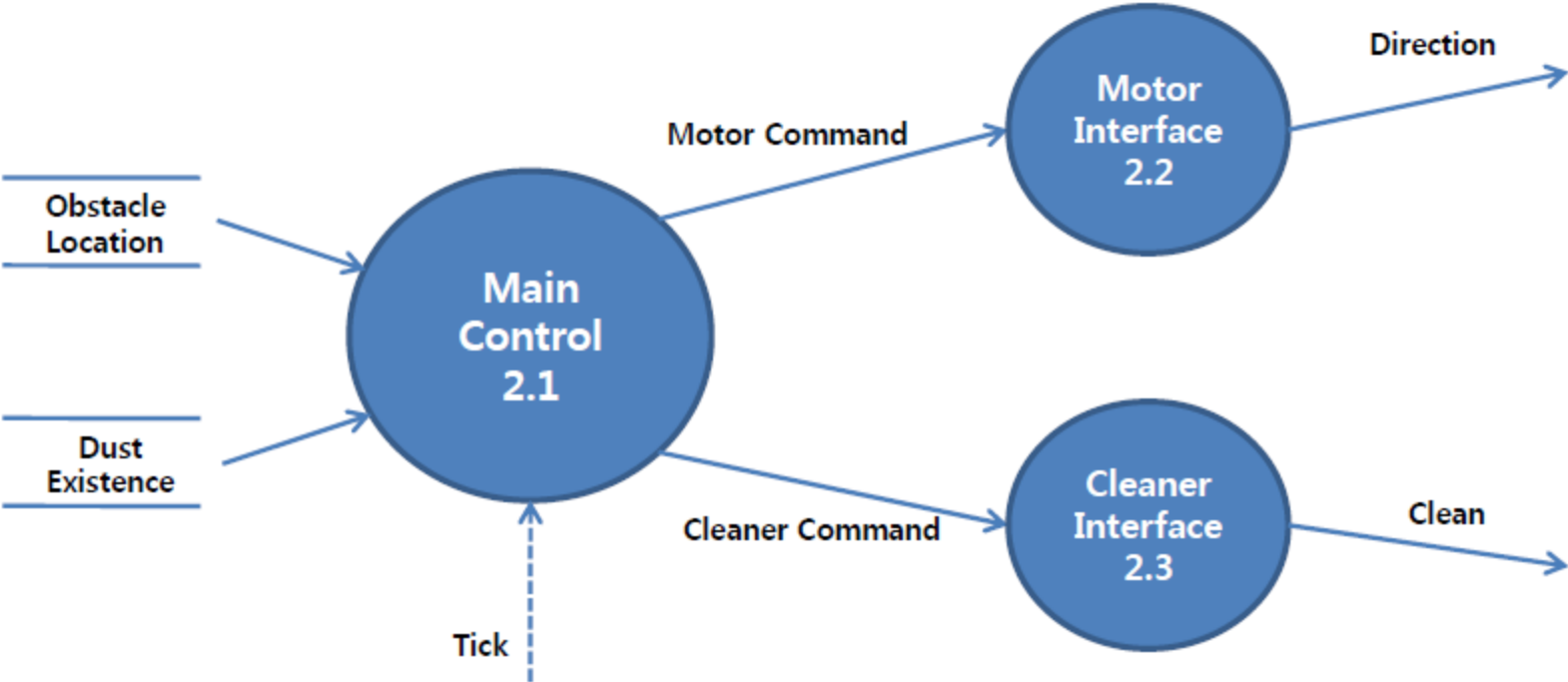
(A kind of) Data Dictionary

Input/ Output Event	Description	Format / Type
Front Sensor Input	Detects obstacles in front of the RVC	True / False , Interrupt
Left Sensor Input	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

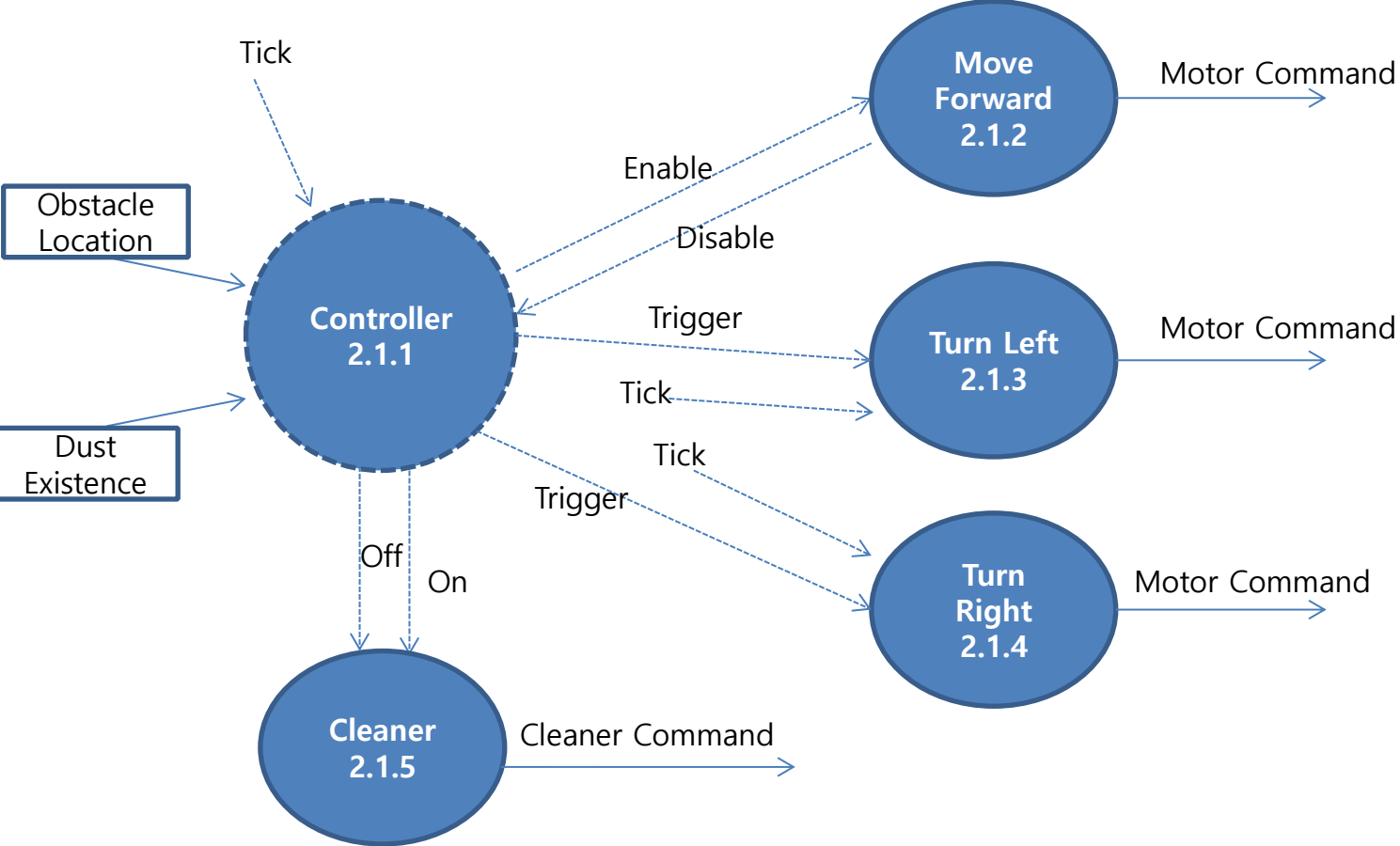
DFD Level 1 – RVC Example



DFD Level 2 – RVC Example



DFD Level 3 – RVC Example



DFD Level 4 – RVC Example

State Transition Diagram for Controller 2.1.1

