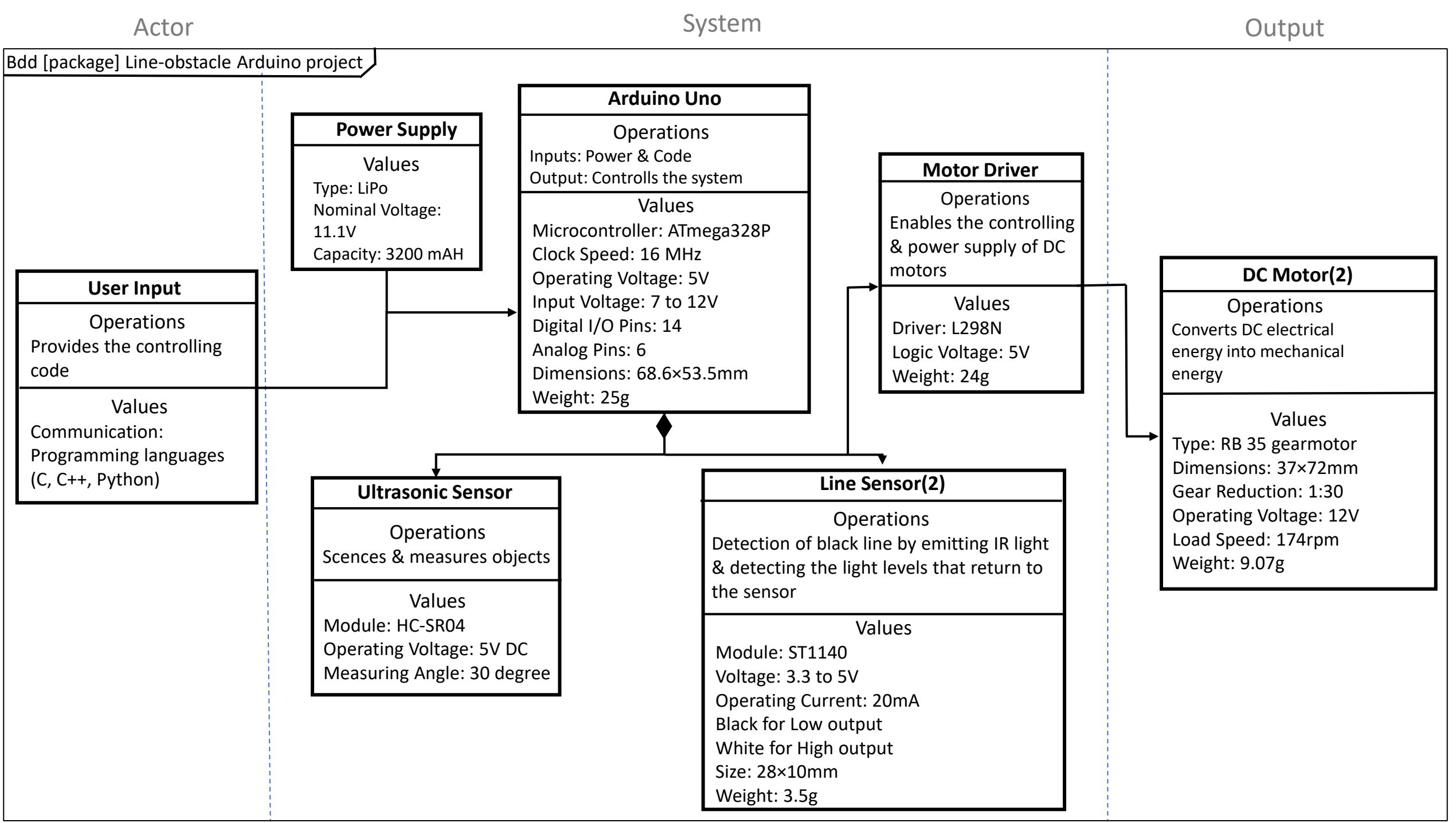
Actor
System
Output
Bdd [package] Line-obstacle Arduino project
Power Supply
Values
Type: LiPo
Nominal Voltage: 11.1V
Capacity: 3200 mAH
Arduino Uno
Operations
Inputs: Power & Code
Output: Controlls the system
Values
Microcontroller: ATmega328P
Clock Speed: 16 MHz
Operating Voltage: 5V
Input Voltage: 7 to 12V
Digital I/O Pins: 14
Analog Pins: 6
Dimensions: 68.6×53.5mm
Weight: 25g
Motor Driver
Operations
Enables the controlling & power supply of DC motors
Values
Driver: L298N
Logic Voltage: 5V
Weight: 24g
User Input
Operations
Provides the controlling code
Values
Communication: Programming languages (C, C++, Python)
DC Motor(2)
Operations
Converts DC electrical energy into mechanical energy
Values
Type: RB 35 gearmotor
Dimensions: 37×72mm
Gear Reduction: 1:30
Operating Voltage: 12V
Load Speed: 174rpm
Weight: 9.07g
Ultrasonic Sensor
Operations
Scences & measures objects
Values
Module: HC-SR04
Operating Voltage: 5V DC
Measuring Angle: 30 degree
Line Sensor(2)
Operations
Detection of black line by emitting IR light & detecting the light levels that return to the sensor
Values
Module: ST1140
Voltage: 3.3 to 5V
Operating Current: 20mA
Black for Low output
White for High output
Size: 28×10mm
Weight: 3.5g