Appendix 2

Lab Sheet
Worksheet for automation of chosen industrial task.

Serial No.	Question	Student response	Instructor Approval and remarks for marking after submission.
1	List and demonstrate the correct type of actuators on your hardware board	Single acting cylinder Double acting cylinder	
2	List and demonstrate the correct type of sensors on your hardware board	Distance comparator ➤ Buck down voltage regulator ➤ Ultrasonic distance sensor (HCSR04) *2 ➤ Arduino Uno ➤ NPN Transistor (S8050) *3 (code in Distance_Comparitor_Code) Relay 1P2T *3	
3	List and demonstrate the correct type of valves on your hardware board	Solenoid actuated valve 3/2 Solenoid actuated valve 5/3	
4	Demonstrate the correct functioning of the circuit on hardware.		