Module 2 Deliverables

2.3.1 Basic Electronic Circuit Analysis

Basic circuits	

2.3.3a-b MOSFET DC motor controller

Preliminary circuit design	
Description of the operating principle	

2.3.3c MOSFET solenoid driver

Preliminary calculations (R2 voltages)	
Preliminary circuit design	
Description of the circuit parameters	

2.3.3d RC servomotor control

Preliminary circuit design	
Description of the circuit parameters	

2.3.4 Arduino Programming Exercises

Variable servo angle (demonstration)	
Variable motor speed (demonstration)	
Solenoid control (demonstration)	

2.3.5 Pinball Motor Application Design Cycle

Circuit design and sketch	
CAD mechanical design	
Circuits specifications	
Testing plan and results	
Redesign notes and analysis	

2.3.6 Pinball Flipper Testbed Design Cycle

Circuit design and sketch	
CAD mechanical design	
Circuits specifications	
Testing plan and results	
Redesign notes and analysis	