

Module 1 Deliverables

General Pre-Reqs

Piazza Sign-Up	
CAD Software Installation	

1.3.1 System Level Design

List of Requirements + Comments	
Functional Block Diagram	
Trace Matrix	

1.3.2.a Pre-Lab

Tutorial screen captures	
Hand drawn sketches	
Screen capture of parts 1,2 assembly, and CAD files of assembly (*.f3d)	
Part 1 stl for 3D printer and Part 2 pdf for laser cutter	
Cost estimates	

1.3.2.b Lab Work

Finalized laser cutter file	
Finalized 3D printer file	
Measurements mismatches documentation	

1.3.3 Pinball System Design

Block Diagram	
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1.3.4 Pinball Mechanical Design

<i>Plan:</i> On paper playfield sketch	
<i>Plan:</i> Mechanical design specs	
<i>Build:</i> Cardboard playfield fabrication	

<i>Test:</i> Mechanical sub-system verification	
<i>Assess:</i> Notes on potential redesign	

1.3.5 Plunger Mechanical Design

<i>Plan:</i> Refined system and mechanical sub-system design	
<i>Plan:</i> Mechanical design specs	
<i>Plan:</i> CAD model	
<i>Build:</i> Built and documented testbed	
<i>Test:</i> Trace matrix	
<i>Assess:</i> Notes on potential redesign	