

CIM 2017: LED Sign Mass Production Project: Daily Plans



Day	What will happen in the classroom?	Evaluation
1-3	Students will do internet research & take notes. Three alternate ideas in engineer's notebook. Teacher will explain what an exemplar notebook look like. Choose best idea.	Grade notes on: content, sketches, dimensions, definitions, how does it all fit?
4-6	Students design and produce parts and assembly in Inventor	
7-8	Students produce dimensioned drawings, and assembly view with notes.	
9	<p>Present ideas through sharing on schoology, presentation, whatever, and choose the best design for the class.</p> <p>Only one gets made as a mass production, but everyone is developing their own sign throughout the process.</p>	<p>Pick top three and then teacher chooses one. Take into consideration ease of manufacture and manufactureability.</p> <p>Students are graded on their own work, and participation in production</p>
10-11	Students use HSM to apply toolpaths, produce code, and verify in software. Teacher sets up production while students are working. When teacher is done with set up, mass production can start.	<p>See Rubric</p> <p>Teacher responsible for set up of stations, and tracking student production</p>
12-17	Basically students are doing two things: Mass producing the parts necessary for every student to get a project when done, and working on documenting their own project. See rubric for required documentation	<p>See Rubric</p> <p>Teacher responsible for set up of stations, and tracking student production</p>
18-19	Project finish and assembly and submission of rubric requirements	See rubric
20	Teacher numbers all of the projects, and has the student draw numbers out of a hat. Student gets the project with the number they picked.	This gives student buy-in that all projects must look the same, and come out looking good.