2021 Engineering Drawings Challenge Score Sheet

Objective: Team produced engineering drawings (100 Pts)

Team Number: _____ School: _____

Drawing Accuracy	**Possible Points**	Points Awarded
0-5 Incomplete 6-10 Mistakes 11-15 Complete 16-20 All Features • Level of depth and detail. • Size, shape, and appearance should be accurate.	**20**	
Comments:		

Dimensions and Annotations	**Possible Points**	Points Awarded
0-5 None 6-10 Some 11-15 Most 16-20 All • Includes complete dimensioning of all parts • Dimensions are complete, clear and concise with no repeat information. • Annotations are used appropriately • Dimensions and annotations are appropriately placed, easy to read, and do no overlap important information. • Consistent and appropriate units of measure	**20**	
Comments:		

Part Drawings	**Possible Points**	Points Awarded
0-5 None 6-10 Some 11-15 Most 16-20 All Each part in the final assembly should have an individual drawing • Each part drawing should include **orthographic views** (front view, top view, side view) and an **isometric view**. • All views should be properly placed with no overlapping content and inside drawing borders. • All views are scaled appropriately for sheet size and match title block. • Different line properties such as line type and/or colors are used for organization and clarification when needed (i.e. hidden lines). • Title block includes Title (Name of Part), Team Name, Paper Size, Scale, Drawn Date, Revision Number, and Sheet Number.	**20**	
Comments:		

Judge name (print):_____

2021 Engineering Drawings Score Sheet

Objective: Team produced engineering drawings (100 Pts)

Assembly Drawings	**Possible Points**	Points Awarded
0-5 None 6-10 Some 11-15 Most 16-20 All This drawing should illustrate all parts assembled • This drawing should include an **isometric view** and an **exploded view**. • Views should be properly placed with no overlapping content and inside drawing borders. • Exploded view is neat and clearly shows disassembly of robot. • Parts list is included and complete. This table should include part number, part name, quantity, and material. • In the exploded view, parts are labeled with part numbers and match parts list. Labels are easy to read and do not overlap critical information. • All views are scaled appropriately for sheet size and match title block. Otherwise, a note is added to differentiate scale from title block scale. • Title block includes Title (Name of Assembly), Team Name, Paper Size, Scale, Drawn Date, Revision Number, and Sheet Number.	**20**	
Comments:		

Professionalism	**Possible Points**	Points Awarded
0-2 Minimal 3-5 Adequate 6-8 Professional 9-10 Industry Std • Drawing List or Sheet list is included • All drawings are properly formatted ANSI C (22x17") paper size. • All PDF drawings file(s) are included and no errors encountered when opening files. • File naming convention is clear and professional • Professional overall appearance of drawings including logos, appropriate text size, title block, notes, and more. • Spelling and grammar are correct.	**10**	
Comments:		

Overall Application and Understanding	**Possible Points**	Points Awarded
0-2 Minimal 3-5 Basic 6-8 Good 9-10 Advanced • The team should demonstrate a good overall understanding of CAD and drawing creation. • All information should be present • Parts could be manufactured from these drawings.	**10**	
Comments:		

SCORE CALCULATION			
Additional Comments:	**Final Score**	**Possible Points** **100 max**	

Judge name (print):_____