Morning Session - 11472 CAD with Autodesk Inventor (10 minutes)









Autodesk Inventor provides engineers and designers a

professional grade solution:

- -3D mechanical design
- -Simulation
- -Visualization
- -Documentation



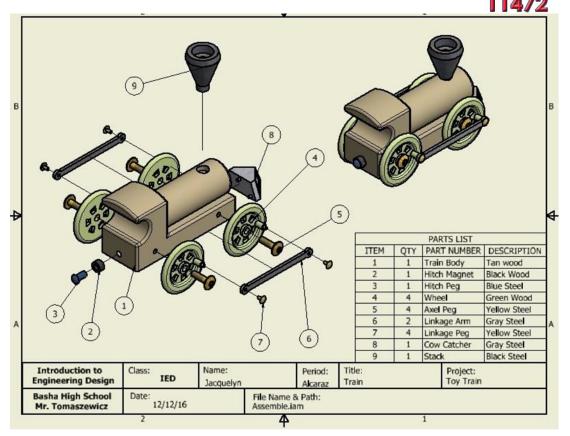






Autodesk Inventor
 allows engineers and designers to create:

- -Drawings
- -Parts Lists
- -Presentations







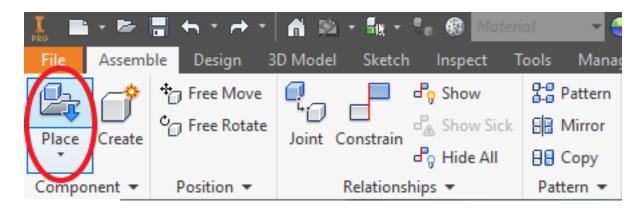




Advantages of Inventor

- -Upload premade parts
- -Open source cad
 - Grabcad
 - 3D content central
- -Place parts in assembly











Advantages of Inventor

-Extensive options allow for precisely detailed builds with custom features -Plano ISD engineering classes use Inventor



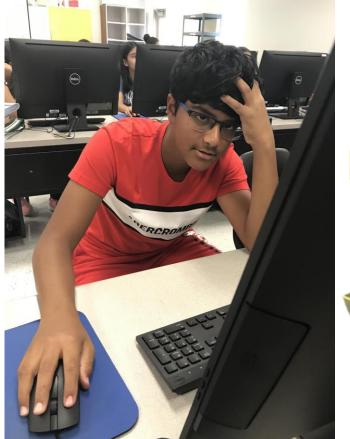


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Disadvantages of Inventor

- -Complex software can be difficult to learn
- -Expensive to purchase
- -Some features are not needed for FTC







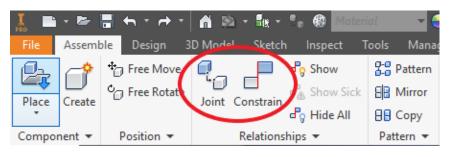


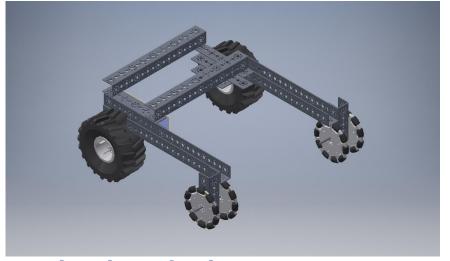


Tips for using Autodesk

- -Use Constraints and joints
 - Allow easy shifting of parts if needed
- -Not all parts are required to be recreated in cad
 - Only cad the main parts
- -Make the robot in separate pieces.











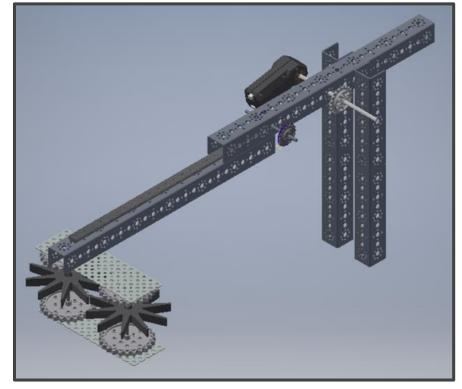




Presentation tips

-Use the snipping tool for a fast cropped screenshot











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Presentation tips

-Make multiplecamera angles-Show multipleparts of your robot

