## **Drawing Checklist**

Use this to ensure completeness of your drawings. Remember that your drawing should be easy to understand and specify everything one needs to make or assemble the design. If you think something may be ambiguous, add additional details and/or notes for clarity.

<b>Views</b> are arranged in the correct (first/third-angle) <b>orientation</b>
<b>Hidden lines</b> are shown except where they obscure the view
Tangent lines are omitted unless needed for clarity
All features of the part are shown in <b>true size</b> in at least one view
Location and size given for all features
Features are <i>fully-defined</i> but <i>not over-defined</i>
Critical dimensions are toleranced
Non-critical features provided with looser tolerances
Dimension and tolerance <i>precisions match</i>
<b>Precision of non-toleranced</b> (i.e. using title block tolerance) dimensions are chosen appropriately
A <b>tolerance stack</b> has been performed to ensure that all tolerances selected are appropriate
Dimensioning to <i>hidden lines</i> is avoided
Center lines/marks added for revolved and symmetrical features
No dimension lines are <i>crossing</i>
Dimensions are <i>placed outside</i> the view
Quantity (i.e. 6X) noted for patterns of features
Use of TYP is <i>unambiguous</i>
<b>Reference</b> dimensions provided where needed or requested (i.e. overall dimensions)
Diameter symbols added to cylindrical bosses, holes, and arcs greater than 180 degrees
<b>Radius</b> symbol added to fillets, rounds, and arcs less than 180 degrees
Material (alloy, heat treat, and specification) noted on drawing or referenced in BOM
<b>Coatings</b> noted on drawing or referenced in BOM
Location for <i>coating masking</i> (if any) noted
Critical <i>finishes</i> noted
Notes indicating non-obvious <i>critical/sealing surfaces</i> that must be free of scratches
Basic <i>edge break</i> requirements are conveyed with a note instead of dimensions on the face of the drawing.
<b>Marking</b> instructions and location provided if required
Geometric dimensioning and tolerancing applied where needed
Basic dimensions are used where needed
Have I given the machinist everything they need to make this part?
Is this drawing clear?