

Did you complete all the sections?

Do you have a paragraph describing in plain English the purpose and functionality of your component?

Do you have an annotated CAD graphic that shows your component and its various pieces?

In your functional requirements do you have some statement of time? Your component has to perform a task in a certain amount of time, this will be necessary to derive the power requirements.

Do you have assumptions?

Did you specify where you were neglecting friction if you did? For instance, if you were analyzing a friction drive you cannot simply say “neglect friction.” Although you might say we “neglect bearing friction in friction drive.”

You cannot neglect friction in a linear slide as it is part of the curriculum.

Did you state you were assuming quasi-static analysis? Almost all of you should be doing your analysis in this fashion.

Do you have axes associated with each of your FBDs?

Did you only draw external forces acting onto the body? (Your analysis probably went awry if you didn't)

Is your FBD overly complex? Perhaps it should be several simpler FBDs.

Did you define all the variables in your FBD (distances, forces, angles, etc)

Did you write your variables with subscripts or just lowercase letters? Correct - F_x Incorrect - Fx

Did you number your equations? This will make it much easier to reference in your analysis.

In your analysis did you specify the necessary torque and energy requirements of your component? Did you compare those requirements to the properties of your kit items? Did you then provide Factors of safety for the component you selected?

Did you use a consistent font and formatting scheme the whole way through your report?

Did you staple your rough draft to the final version?

Did you submit your electronic copy to the class @ ted.ucsd.edu? (If your hard copy goes missing for whatever reason this will save you)