Design Project

Objective: Design the shaft for a table saw, considering static and fatigue loading conditions.

Requirements: A project report (to be described in another document) that details the procedures, calculations and design of the shaft.

- The report must be computer based
- The calculations must be done in a computer program, such as Mathcad or Matlab.
- Drawings should be done either on the computer or very neatly by hand.
- Reports should be submitted as a “soft copy” if possible. An extra 3% will be added to grades of projects submitted to my email account. I will not take off points for a “hard copy” unless the parts done by hand are unprofessional in their appearance. A report submitted softly should still look professional if printed out.

Important dates:

- **Monday, 11/29** (The day after Thanksgiving break). You must turn in your static calculations. This means you should have a preliminary sizing design based upon the static loading condition. This does not have to be formally presented, it is only to ensure that you are progressing on the project. The completeness of this is worth 10% of the final grade, so if I do not receive this, your project will start from a 90%.

- **Final due date: Wednesday, 12/15 @ Noon** (First day of finals). Design projects turned in after this day will lose 15 points per day.

Please discuss any questions or doubts with me sooner rather than later.