# ME301 Day 5 Technical Writing Worksheet

1. **Practice with Verb Tense in a Design Paper *(circle or highlight the most appropriate of each underlined pair of tenses – i.e., is “are” or “were” the best choice for 1.1?)***
   1. Most tasks **are/were** performed while seated at a desk with target locations for pick and place reaching tasks labeled on the desk and shelf.
   2. The dataset **is/was** collected using a 12-camera VICON motion capture system that **tracks/tracked** the Cartesian locations of seven markers on a subject at a rate of 120 Hz.
   3. The kinematic motions for 24 ADLs **are/were** captured for six subjects whose ages

**range/ranged** from 20 to 41 years.

* 1. The main objective of the prototype **is/was** to validate the potential for the desired 2-DOF mobility.
  2. In the final assembly, the parallel dual four-bar mechanism **is/was** composed of two parallel endplates separated by the 4 clavicular links.

1. **Identifying Unneeded “Feeling” Words and Justifications *(circle or highlight all “feeling” words/phrases in the sentences, underline any unneeded justifications)***
   1. There didn’t seem to be any significant differences between the trials, and therefore we decided it was appropriate to include all six subjects in the shoulder displacement analysis.
   2. Since our goal is to maximize training outcome, we want the subjects to remain motivated and challenged.
   3. Rewrite 2.2 in a more concise form without the use of feeling words or justifications:

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1. **Eliminating 1st Person where Unneeded *(circle or highlight any 1st person text that should be removed)***
   1. We didn’t see any significant differences as a result of subject stature, and as a result we decided to include all six subjects in the shoulder displacement analysis.
   2. During the final trial, we asked the subjects to close their eyes and relax.
   3. Rewrite 3.1 in a more concise form without the use of 1st person text:

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1. **Spotting Narration *(circle or highlight all words or phrases that narrate rather than just present the work)***
   1. First, we developed the prototype from aluminum 6061-T6 for its high strength to weight ratio.
   2. Later we also developed the same prototype made of 301 stainless steel and PLA plastic.
   3. Next, we evaluated the relative weights and stiffnesses of each material.
   4. Once the prototypes were complete, a side-by-side comparison showed important distinctions.
2. **Compound Adjectives *(circle or highlight the compound adjectives that should be connected by a hyphen)***
   1. A four bar mechanism has 1 degree of freedom.
   2. A five bar mechanism is a 2 degree of freedom mechanism.
   3. A computer aided design (CAD) model and a proof of concept wood mockup were produced to validate the adequacy of the 2 DOF mobility enabled.
   4. In the figure, the 30 degree arclength on the left has been superimposed on the 30 degree arclength on the right to showcase the small amount of glenohumeral misalignment that would result from using a single length clavicle design.
3. **Identifying Imprecise, Informal, and otherwise unneeded “Filler” words/phrases *(circle or highlight all)***
   1. To assess just how much mobility is needed in order to accommodate a healthy shoulder girdle, an activities-of-daily-living database was used to estimate the translation of the glenohumeral joint during a variety of daily tasks.
   2. The requirements at the shoulder depend to a certain degree on the population of interest and their impairment characteristics.
   3. It is very difficult for a human to reproduce the exact same movement over and over again without any variation.
   4. Rewrite 6. 1 in a more concise form without the use of “filler” words:

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* 1. Rewrite 6. 3 in a more clear and concise form without the use of “filler” words:

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