ENGG1960: Introduction to Biomedical Engineering
Engineering Drawing Assignment

This assignment is due on Friday the 6th of June 2014 (Week 13) at 5:00pm Eastern Standard Time (EST)
Assignments submitted late will be accepted ONLY with a Special Consideration request and supporting documentation.
This assignment is worth 5% of your assessment for ENGG1960

This is an individual assignment

You are required to supply your own hardware and using either SolidWorks, another CAD system of your choice or traditional hand methods, produce detailed parts drawings of each part of the assembly and an assembly drawing. The detailed parts drawings must be either A4 or A3 in size. It is recommended that the assembly drawing be A3 in size. The A4 and A3 layouts supplied with SolidWorks may be used. The drawings MUST be in third angle projection.

The hardware must have at least two different non-standard components one of which must be manufactured from a metal e.g. steel, aluminum, brass etc. Standard components are parts that you can typically buy off the shelf or from a catalogue (nuts, bolts, washers, pins, etc.). The hardware you choose must not be too difficult. No LEGO allowed.

You must bring your assembly to the tutorial on Wednesday 28th May or 4th of June so that your tutor can advise on its suitability. Advice can also be sought from lecturer in room S318 outside tutorial time or via email with an attaché image of your proposed hardware.

All drawings must conform to AS1100 drawing requirements (refer to your text for details). The detail drawings must fully define the part with all dimensions, tolerances, surface finishes, materials etc.

The assembly drawing must show ALL parts (including standard components). The detail and assembly drawings MUST NOT have an isometric view on the drawing.

Detail Drawings
Each drawing number must conform to the following naming requirement:

########-a-b-A#

where,

######## = Student number
a = Detail drawing number (1,2,3, etc.)
b = total number of detail drawings in your submission
A# = drawing size (A3 or A4)
Assembly Drawing
The assembly drawing must have the following naming requirement:

#######-a-b-A#
Where,
#######   = Student number
a        = Assembly drawing number (1, 2, 3, etc.)
b        = Total number of assembly drawings in your submission
A#       = drawing size (A3 or A4) (A3 Recommended)

Take a photograph of your assembly from a position that shows the most features (with a ruler included in the photo). A black and white photograph is O.K. but colour is preferred. Attach this photograph to your drawings with a staple.

Submission
Place your combined photograph, detail drawings, assembly drawing and your signed plagiarism compliance form in a folder with your name and student number clearly indicated on the cover. Submit into the assignment box on level 3 of the Mechanical Engineering Building.

A SIGNED PLAGIARISM COMPLIANCE SHEET MUST BE ATTACHED TO THE ASSIGNMENT.

THIS ASSIGNMENT SHOULD TAKE THE AVERAGE STUDENT 15 HOURS TO COMPLETE.