MYDESIGN PORTFOLIO

JOE BREEN



Hello, my name is Joe Breen

From a very young age I have always had a passion for art, designing and creating. I find great joy and satisfaction in designing and creating something new and unique. I chose to study the course 'Product Design and Technology' because it enables me to carry on pursuing my passion for designing and creating. In my opinion, Product Design has given me new resources and tools to improve my creative passion.





















Interests

















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PROJECTS

DESIGN VISUALISATION

– VISUAL STORYTELLING

DELL COMPUTER MONITOR

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LIT!
LAMP PROJECT

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STIRLING ENGINE PROJECT

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OTHER SOLIDWORKS WORK

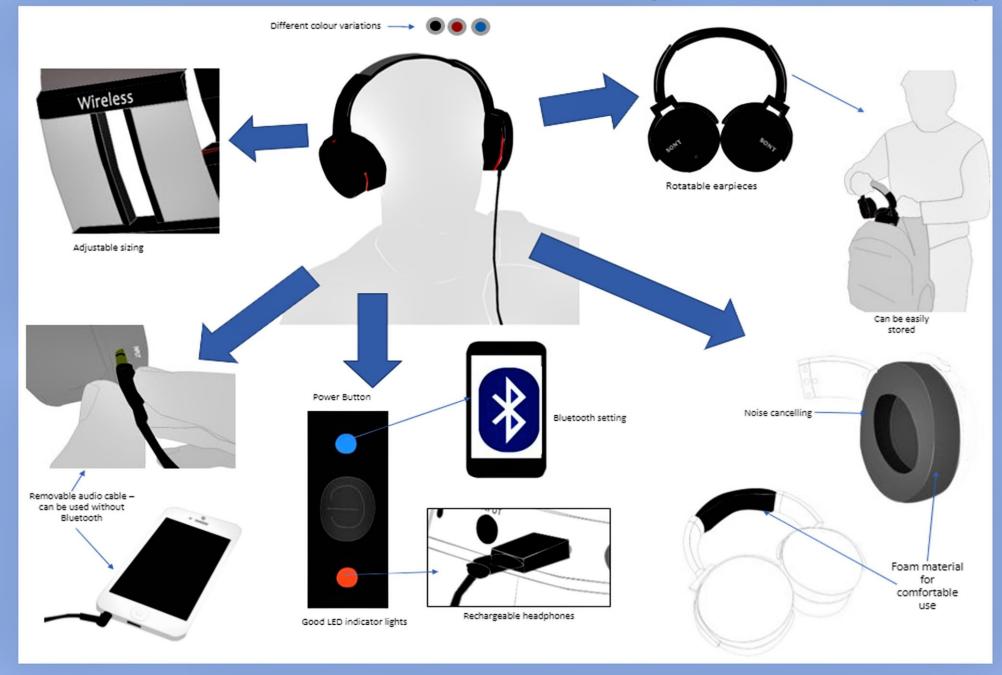
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DESIGN VISUALISATION – VISUAL STORYTELLING

Select a product that has interesting FUNCTIONALITY and USABILITY properties.

Examine the product and create a list of the product's features and why they exist.





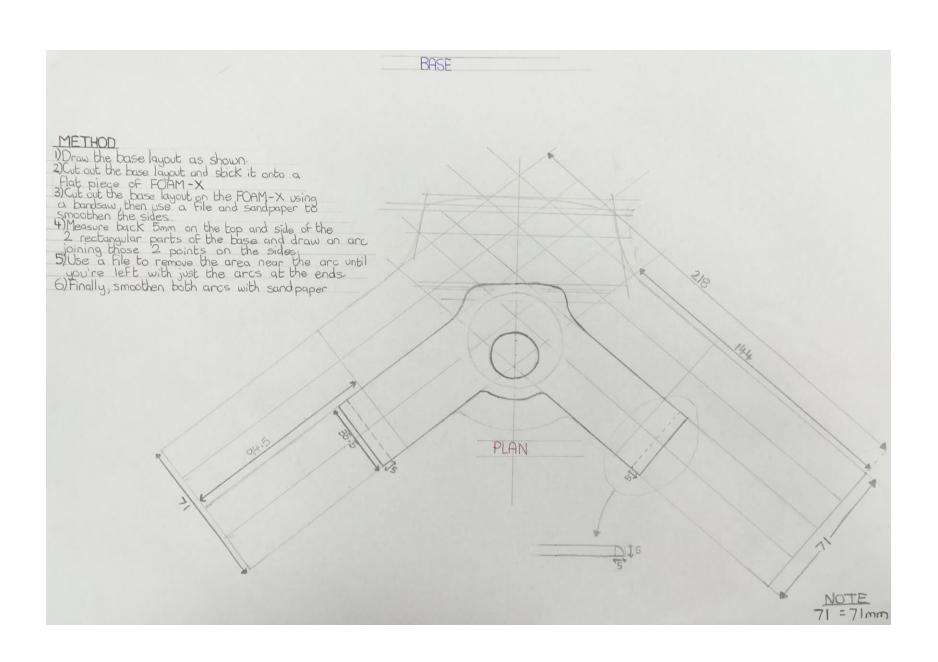
DELL COMPUTER MONITOR

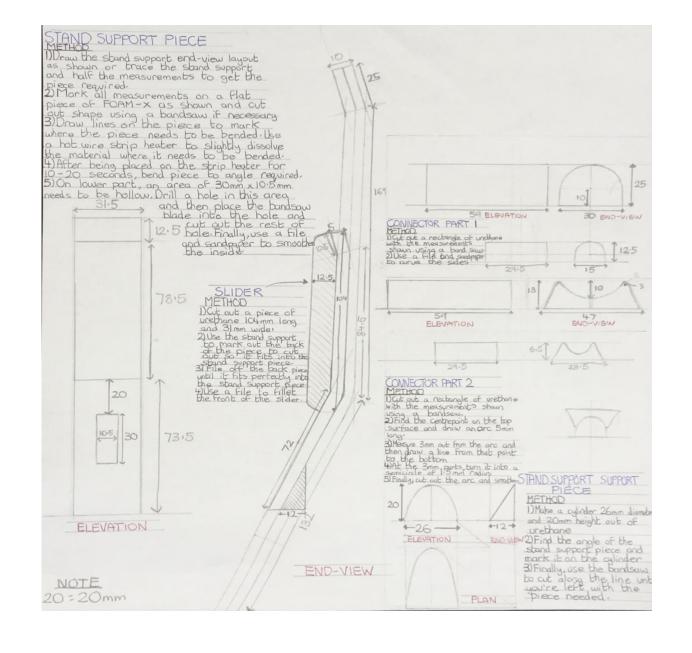
Make a 1:2 scale model of a Dell Computer Monitor.

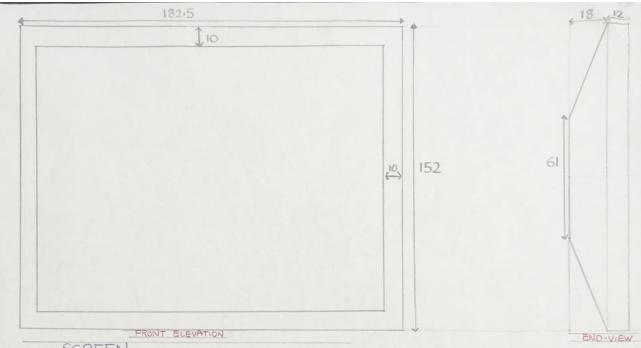
Measuring all the parts of the monitor and half them.

Use the materials provided (in this case, Kingspan foam, urethane and foam-x)









METHOD

Ditake a black of kinospan foam. Make sure it is the right
size if not, mank out the measurements and use the bandsaw.

2) on the back, find the centrepoint using diagonal lines, then
draw a box 61 mm x 61 mm.

3) Measure 37.5 mm from the top and bottom and draw lines that
touch the diagonal lines to make another box
than the diagonal lines to make another box
than the sides, theasure 12 mm from the front and mark the
lines all around the board.

5) Continue the lines on the back to the edges and mark these
points and join them to the edges of the 12 mm lines.

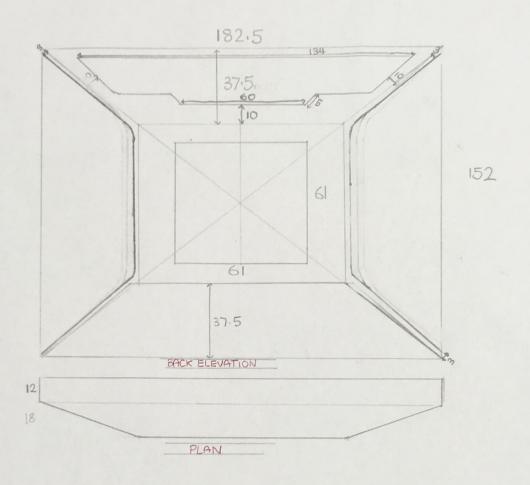
6) Use the bandsow to cut these lines on the sides so it is
tack diagonally.

7) Les Looking at the 4 diagonal sides, pick the bottom side and
use a scalped to cut out out his part so it is hollow. Cut it out
down as far as the 12 mm line. Afterwards, use sandpaper to
smoothen the cut out area.

8) On the front face, measure 10 mm from each side inwards to
mark sut the screen lines.

9) Afterwards, use the computer monitor to mark in any details
eg DELL lettering, lines on the back, Computer buttons.

NOTE 10 = 10mm











LIT!

Design and build a fully functioning light fixture for one of the following purposes: Accenting, Ambiance or Task.











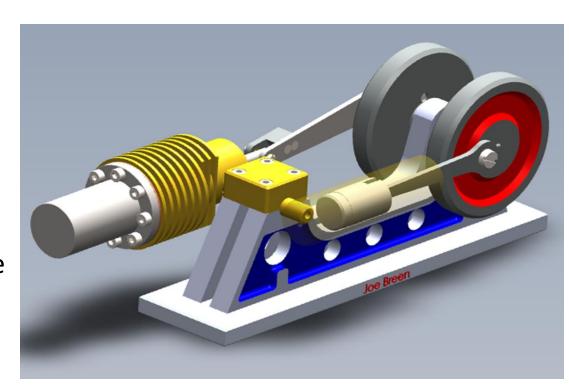
STIRLING ENGINE PROJECT

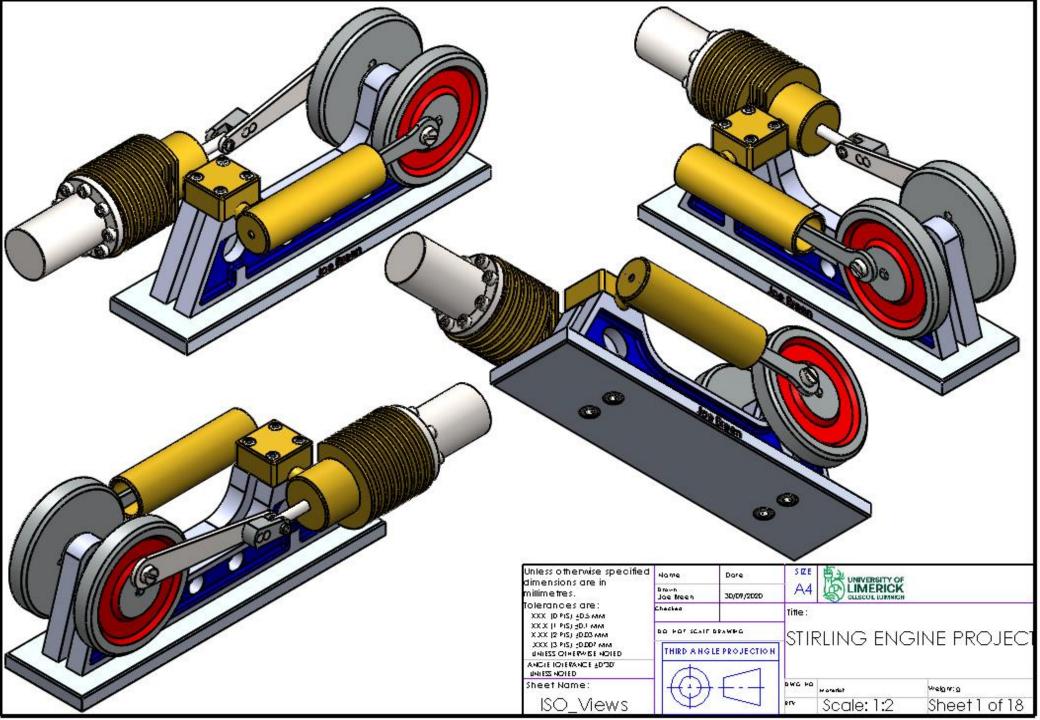
Model the Stirling engine parts accurately from the dimension guide.

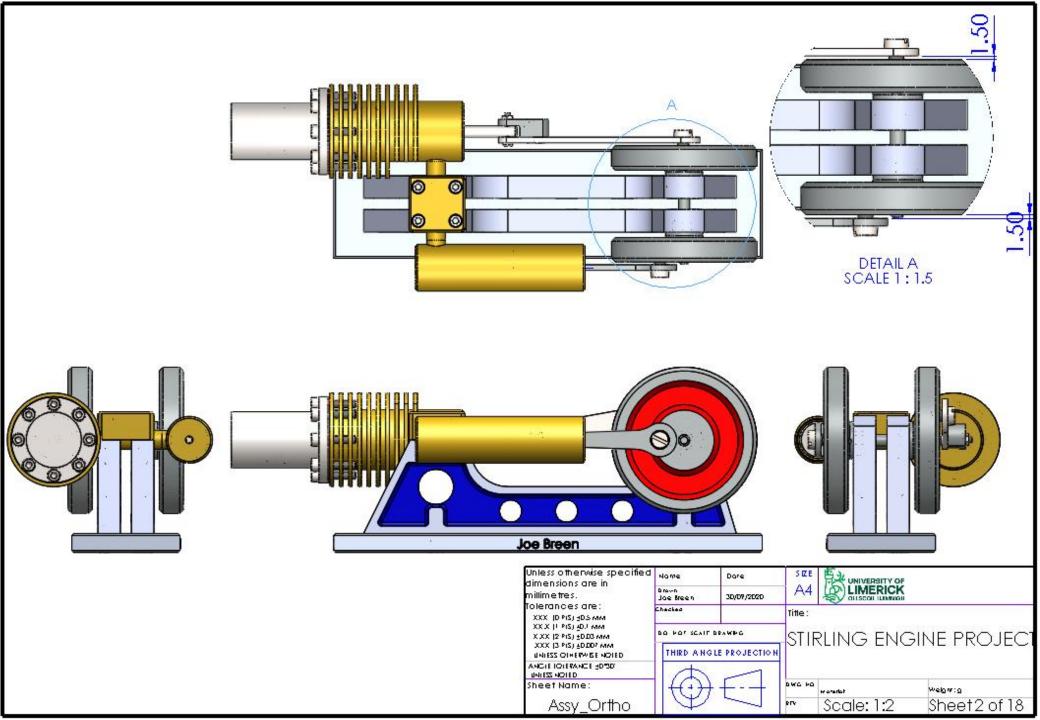
Assemble SolidWorks parts into an assembly.

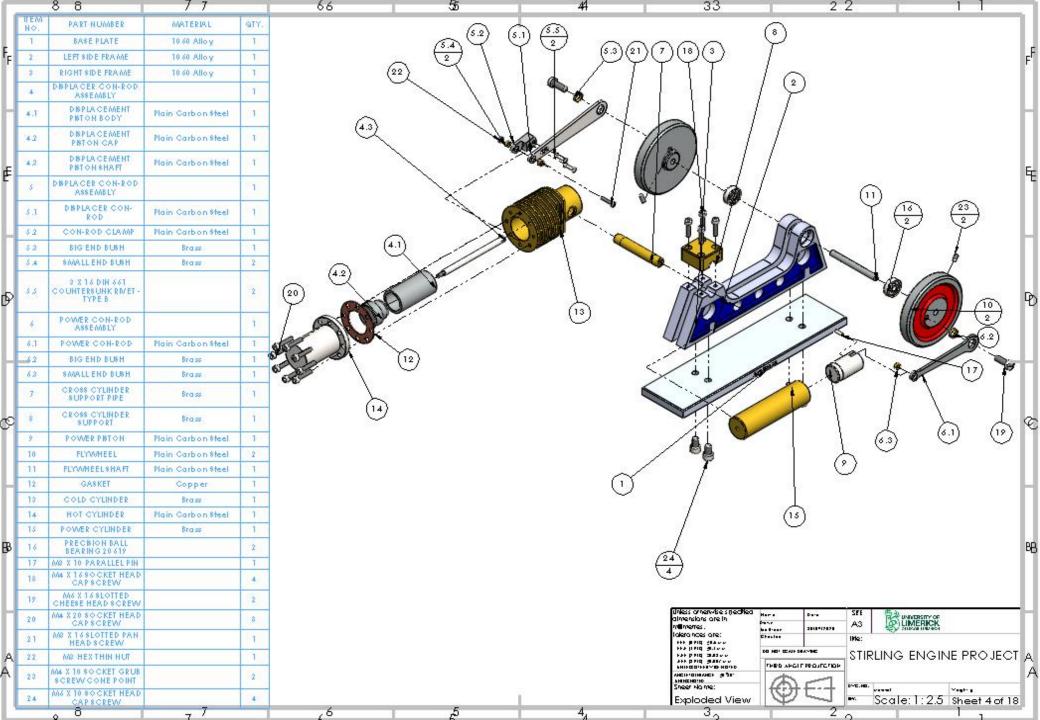
Render photorealistic images from the assembly.

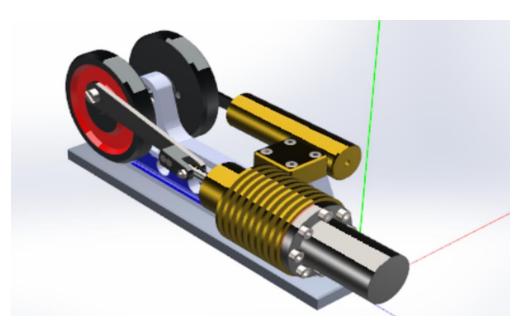
Animate the Stirling engine exploded view.

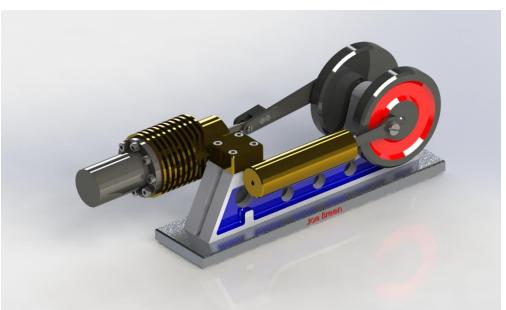


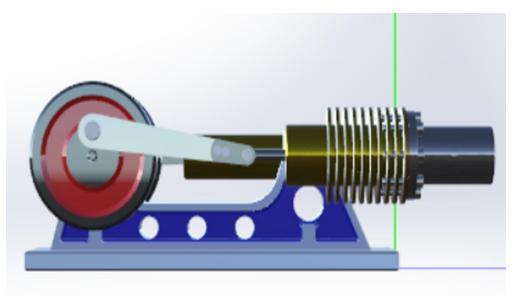


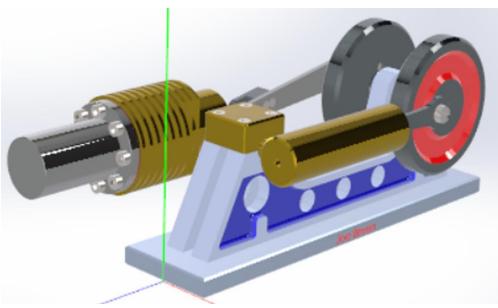


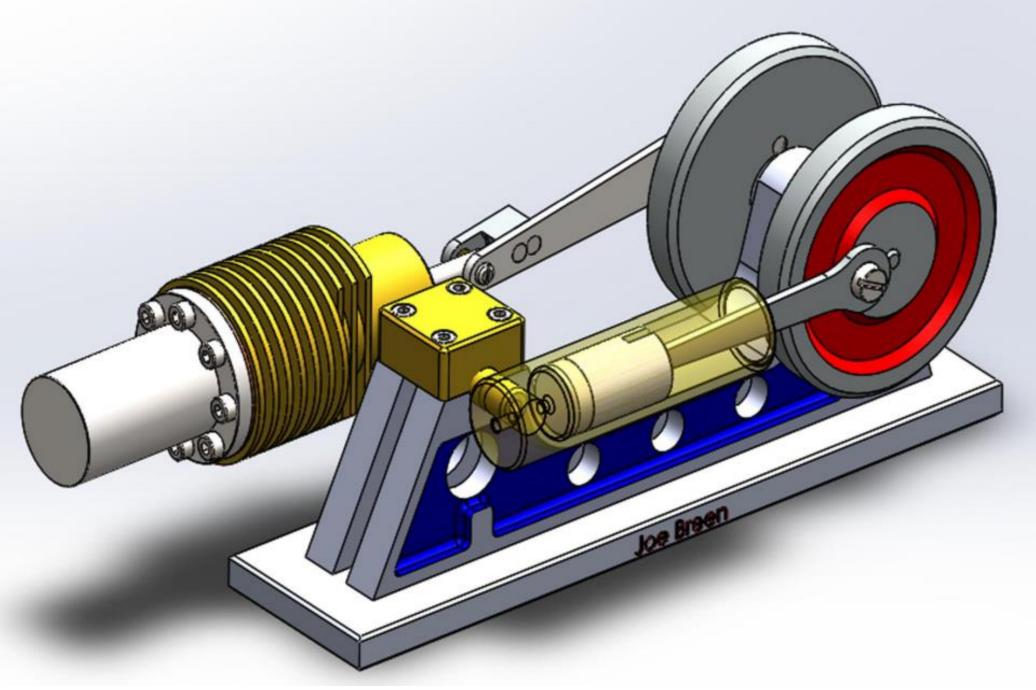












Animation Video Link: https://youtu.be/Ujzpo6M5Mpo

OTHER SOLIDWORKS WORK



TAP



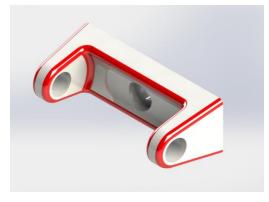
DOOR HANDLE



CUP



WINE GLASS



BRACKET



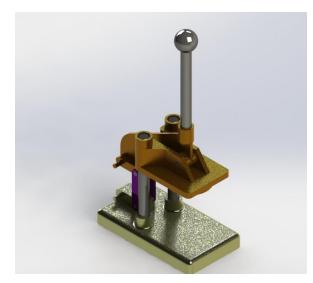
SHEET METAL TOP HAT







BELTTENSIONER



CAN CRUSHER



CAR JACK



PIVOT CRANK