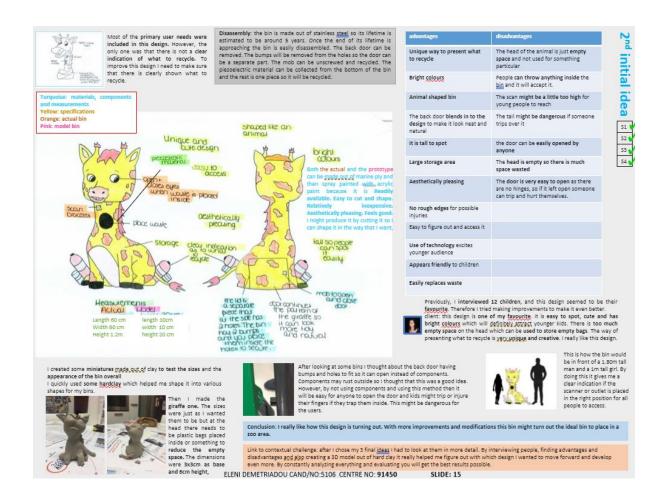
This is a selection of Design & Technology- Product Design GCSE examination work 2019





Eleni Demetriadou



Alexandros Varnavides



Quality Outcome

In the above image the a shot from above is seen with the solar roof removed here i have soldered the cables and also used tape to organize them neatly inside the body of the machine to make them easier to sort and also to change in case of a problem with the system and make the connections more accurate



View

connections I used a Per and soldered all the pieces on it using non-leaded solder to reduce emissions this was made to make the electronics more organized and user friendly

Here in the front view the solar roof can be seen which is supported by bended aluminum plates in order to be bend I cut 1mm of the plate and used a plastic hammer and a form in order to bend them to the correct angle and accurately and strongly hold the roof in place

FRONT View

Here the magnetic pads can be seen which were fixed using screws and thus the upper part can be intentionally removed to replace electronics but otherwise is securely fixed into place. On the upper part ferromagnetic material was statched by screwing to attach in the magnets.

Without

N 3

front cover

Color code



The front line-bended acryllic gives a very nice finish to the build and also makes it distinguishable even in the night making the users easier to locate the machine and is precisely at the middle of the footings just like the original design keeping previous found anthropometrics

Catto INO. 2013, Cettire INO. 21420 Page.21/24 CONCLUSIONS and explaining The Final outcome

- Here you can see the final outcome as it was made into which is **very close** to the wanted outcome and **fully follows the design specifications** also it is functioning and videos showing the **functionality** will be shown in the testing sections
- testing sections
 I also vacuum formed the feet which are shown
 in the front-low view and they are made out of
 High Impact Polystyrene so that they can accept the weight of a human except functional reasons the formed fit also have an aesthetic reason as there light yellow colour gives a very nice finish to the machine and also clearly signal to the user where he can place his feet so he can be
- comfortable.
 The solar roof was also line-bended to form the shape and also has an extension which provides shade to the user which is something the user said was important to him and also makes the display visible even in high intensity sunlight.



Paying terminal close-up



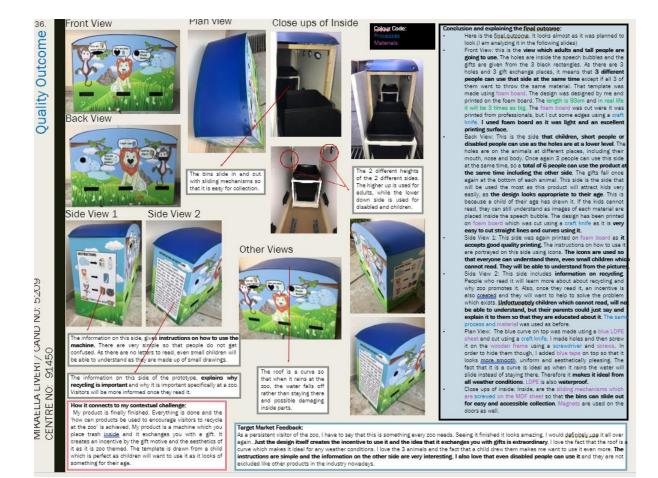
Target Market Feedback:
I very much like the final outcome of the machine and it surely gives a very satisfying aesthetic view of the machine which makes it appealing to the user and the combination of colors makes it look very fabulous additionally I like the way the solar roof is set onto the machine and extends on front just like the design and thus wells represents the original design. I also like the aluminums sheets which support the solar roof. Additionally I believe that the frames and the darker color around the end of the machine provide a very nice contrast balancing with very dark light which is further achieved by the overall black color of the machine. Additionally the shiny red front makes the machine easy to spot from a distance. Also the fingerprint is spot on usable and easy to locate

What to Contextual challenge:
The machine is successful onto being able to be spotted inside a festival and thus allows the user to easily locate it and pay thus putting him at an ease as the amount of money he needs it carry at a festival is reduced as he can now use this system to make pligh first transactions. It provides an authentication system using the fingerprint scanner application of the GDPR regulations and thus makes the machine safe to the user allowing him to trust the infrastructure and also the festival owner more likely to buy such a system. Additionally the machine requires little electric power and no human assistance as it is completely autonomous allowing for fewer personnel and thus lower costs for the owner application of the such as furthermore making the experience at a festival more user friendly

Gregoris Orphanides



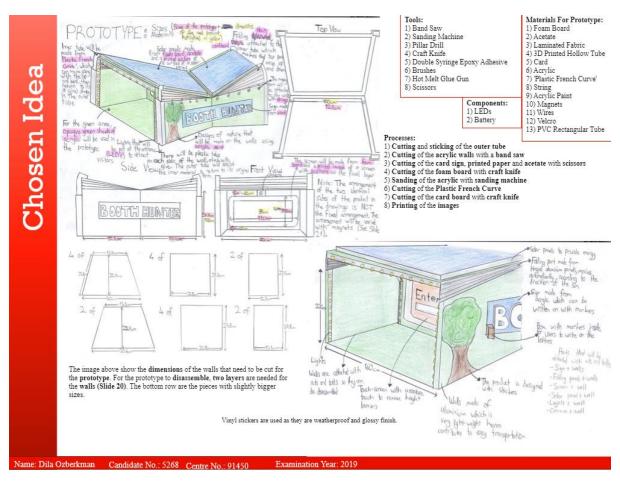
Lazaros Sideris



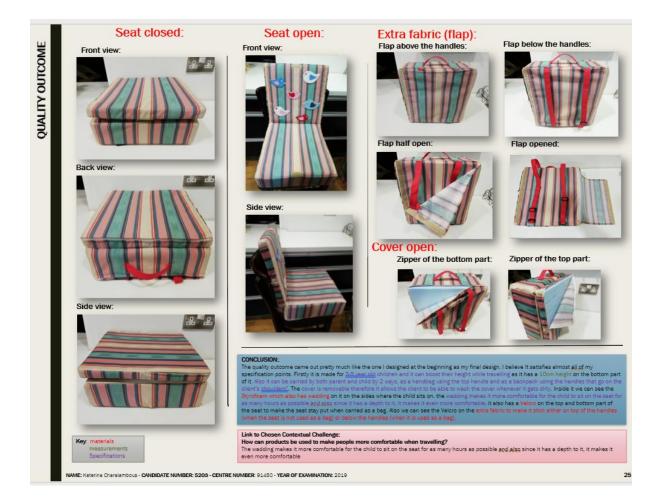
Mikaella Liveri



Maria Demetriou



Dila Ozberkman



Katerina Charalambous

Quality Outcome



Taken from in front to show the area where the customer stands to collect and pay for the wristbands and also the lit Route ME sign.

To make the black acrylic screen look so smooth I rounded up the edges. The blue acrylic that the screen is on blends perfectly with the blue sticker at the bottom as they are the same shade of blue and both are shiny. Looks like a coherent part. The blue part was bent using line bending.



Here the back side of the booth can be seen, where the door opens to top up the wristbands and fix the electronic parts inside.

A plastic doorknob was added to open and close the door. In order to have such a finely cut door made by white acrylic I used the laser cutter. A frame in the second picture can be seen(the same material as the door), which is used so that the door has place to close on, so it doesn't swing back and forth.

Different views and close ups from different angles of the Route ME prototype booth.



Client feedback:
' First of all the combination of the colours blue and white are very appealing and relaxing to my eye which attracts people's attention. It looks like a structure that could be placed outside at the entrance of the festival.

The way is set up shows that it has easy access, which will enable me to spent as less time as possible so the queue will be smaller. Lighting looks



Side views from right and left are shown at an angle to give the realistic feeling of a real size booth

A lot of effort and skill was required to stick the stickers on the MDF sides ,that were cut using the band saw, to not let air bubbles and bumps be created. Also to create the smooth edges that merge with the blue acrylic I had to fold the sticker from the inside of the MDF.



In this section you can see the back angles of the booth during night time and day, time using artificial lighting , to show the effect of the LED lighting

Using double sided tape I stuck the LED strip and battery above the sign so both the sign and in front of the booth was lit in order for the customer to able to see during night time. On the right side you can see the intersection of the back side and left side are very smoothly put together, seems like it's a <u>real life</u> booth. Double sided tape was used in the place of any adhesive I order to avoid any getting spilled out of the intersection

Name: KYRIAKOS ATHIENITIS Candidate no.: 5255 Centre no.: 91450 Examination Year: 2019

Kyriakos Athienitis

AS-A2 level Product Design work 2019



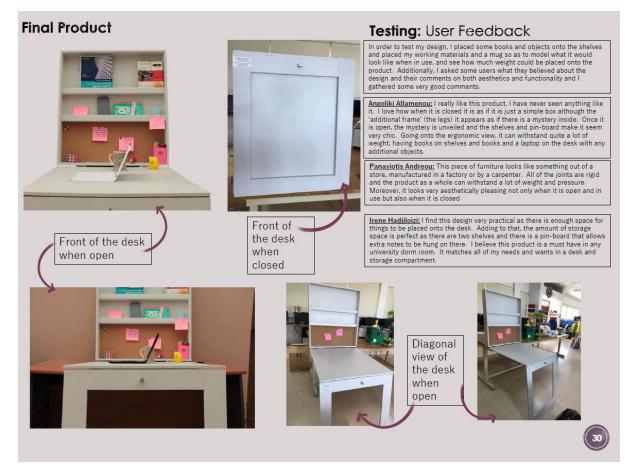
Bartu Harmandagli



Andreas Kallis



Athina Jordanou

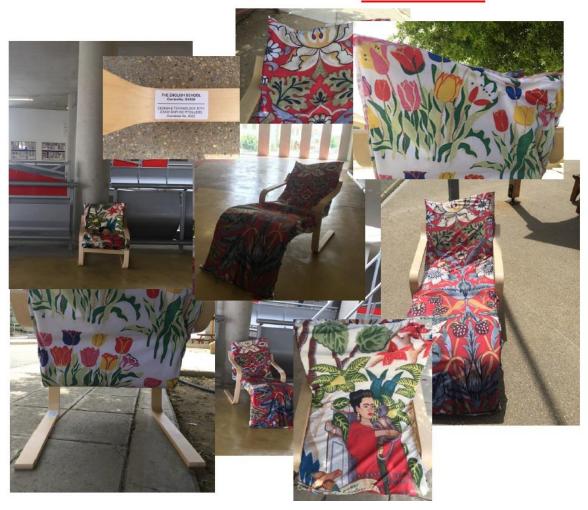


Artemis Dundovic

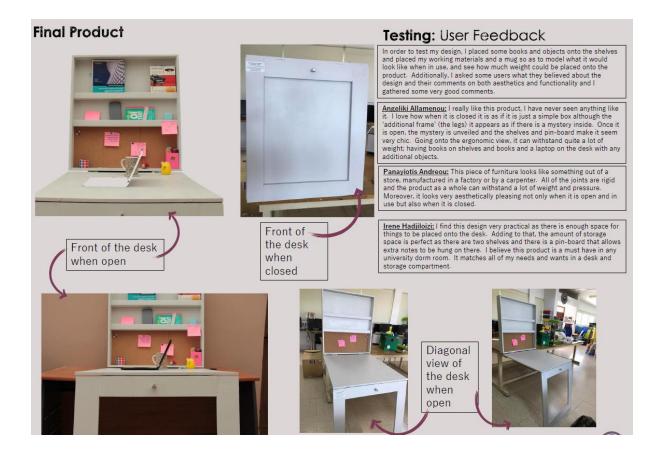


Elena Zannetou

FINAL DESIGN



Jenny Pitsillides



Artemis Dundovic



Christina Kassapi



Elina Christodoulou





Julia Constandinidou