

DESIGN DECODED 2021 : ART EXHIBITION



*Decrypt your
visual creativity*

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ISBN 978-967-2948-13-1

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Printed by

Sinaran Bros. Sdn Bhd (No. 3968-X)
Percetakan-Offset-Digital-Penjualan
5-3-18, The Promenade,
Permaisuri Mahsuri,
11950, Bayan Baru,
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BEEPO (Social Distancing Tool For Kids)

Children are used to the atmosphere of playing, touching and sharing which make it difficult for them to practice a new norm culture of 'social distancing' in their lives. According to the Ministry of Health (MOH) said that it classifies children below 12 years as "high risk" for Covid-19 transminssion. As we all know, kindergartens and childcare centers were allowed to start their operation started from May 12, 2020 after the MCO ended and being replaced with CMCO. However, the government will make changes from time to time to ensure the safety of the children. If the Government has allowed the kindergarten to be fully operated, how can the school ensure that these children can practice social distancing among them? Of course, children are easy to adapt to whatever information has been delivered to them but their instinct will tend to forget the rules of social distancing when they started to mingle around and play with their friends This is where the idea of the product came from. BEEPO is a tool that helps to educate the kids to practice social distancing in their lives. This product is specially designed like a toy which mainly intended for use by children, though maybe marketed to adults.

The front-facing of the product shows a smiling character and it comes with a few types of colours which are suitable for boys and girls. How does it function? This device will produce vibration and sound when people are too close with each other within the range of 1 metre distance. With this the user will be triggered by the sound and vibration which can makes them realise that social distancing has been violated. This product is relevant to the current pandemic situation as it could help to curb the virus and to practice the new norm. The technology that used in this device is Ultrasonic sensor, Arduino nano, Buzzer and Vibration motor.

The main electronic items are Ultrasonic sensor and Arduino nano, both items will react concurrently whenever it detect the movement of human within the 1 metre distance. The Ultrasonic sensor is to measure the distance of a target object by emitting ultrasonic sound waves and converts the reflected sound into an electrical

signal. Then, it will trigger the vibration motor and buzzer to be functional. The idea was developed through the research from the article about the current covid-19 issue for children and also by the data collected from a google form questionnaires that have been responded to 160 number of respondents. The majority of the respondents which consists of 80% were kindergarten teachers and parents who have children below 6 years old. BEEPO Social Distancing device is potential to be used for any government and private kindergarten school which the main function of the product is to create awareness of social distancing. As we have been reminded by the Government, 3 ways to curb the virus by practising the 3W which are "wash hand, wear mask and watch your distance". Thus, social distancing is one of the main important factors to contain the Covid-19 virus.



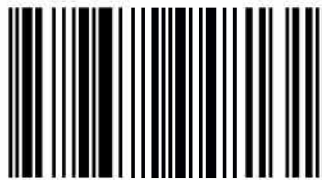
DINI SOFIA BT KAMARUL SHAM
BEEPO (Social Distancing Tool For Kids)

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75 mm x 66 mm
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ISBN 978-967-2948-13-1



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