Formula 3 SUPRA All India Competition

Manufactured and Assembled a Formula 3 car along with a team of 8 and participated in SAE SUPRA 2016 All India Competition and won the 3rd place among 46 participants from other state Universities.

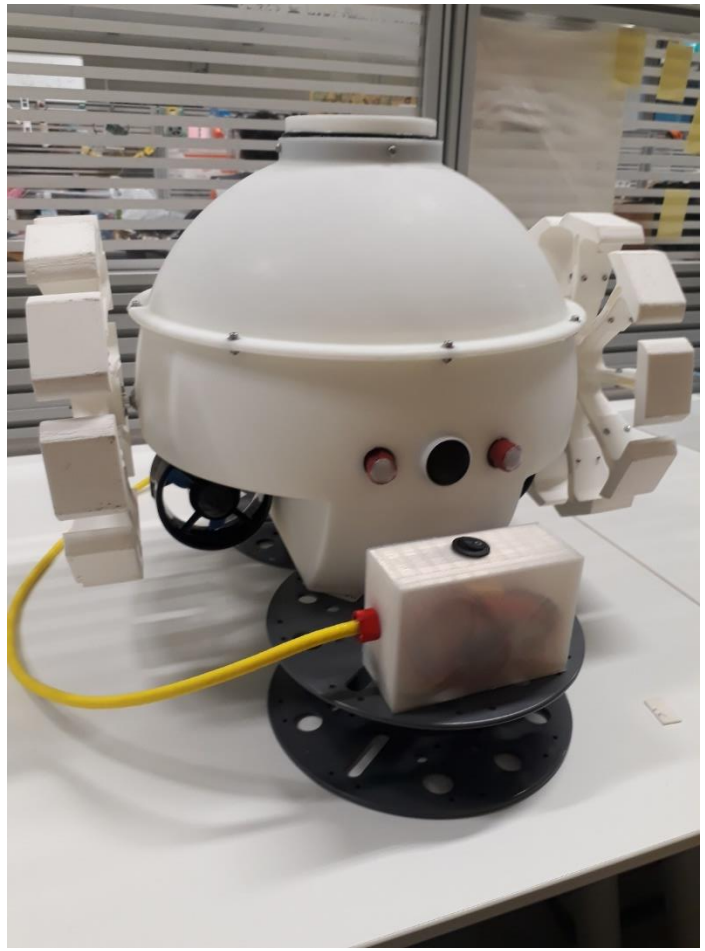
Final Year project - Dual Purpose Cleaning Robot

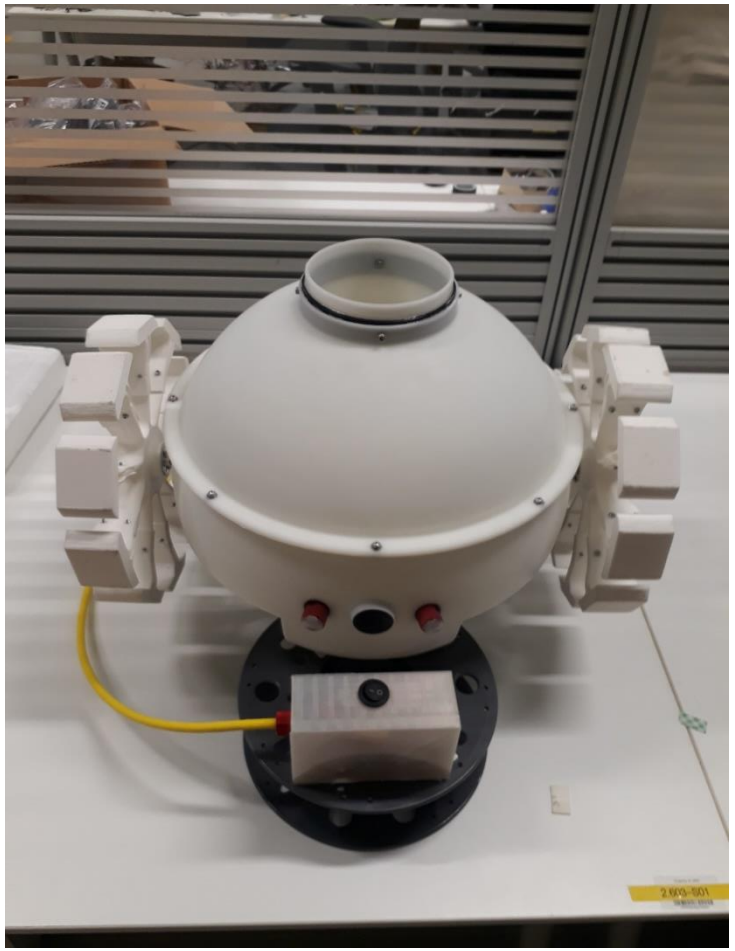
Designed and Developed a cleaning robot which has the capability to clean walls and floor. The floor cleaning version is operated wirelessly from a self developed Mobile app. The wall cleaning version is done automatically without any human interference. The Robot is featured in ROSMA 2018 Conference titles “Design of Dual purpose cleaning robot”

Journal Link :
https://www.sciencedirect.com/science/article/pii/S187705091831010X

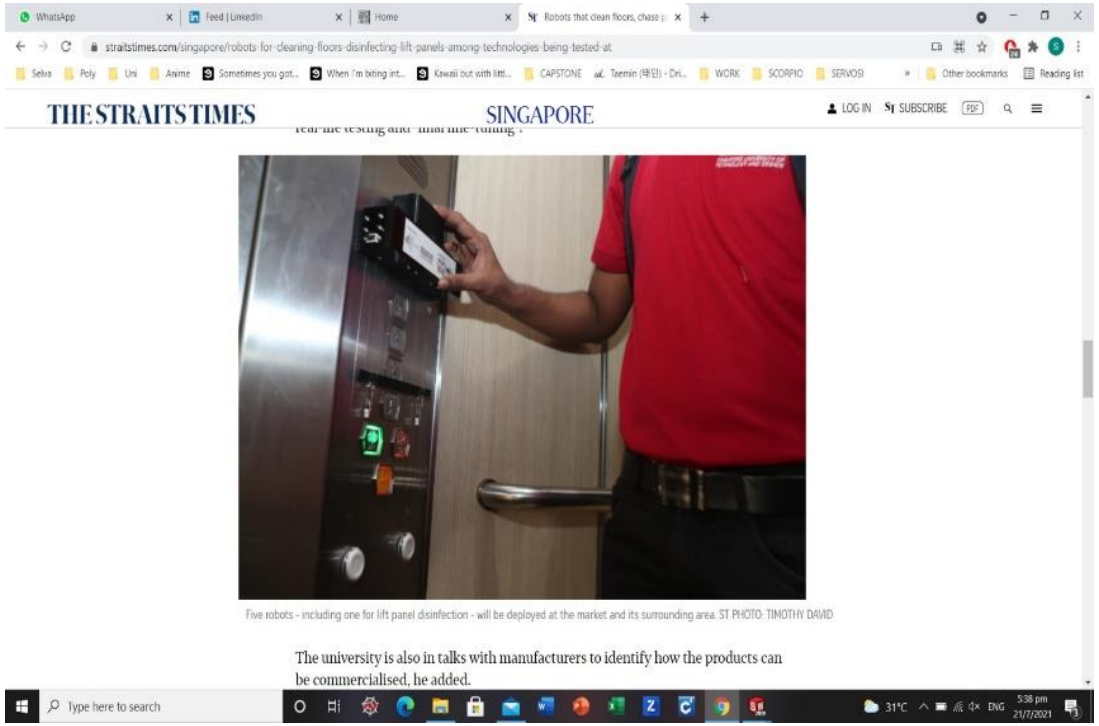
Amphibian Surveillance Robot – Internship Project

Technical Lead for a Prototypical Amphibian Robot which was built with a aim to survey Land and Underwater channels. The platform is controlled through Tether.





Lift Panel Cleaning Robot

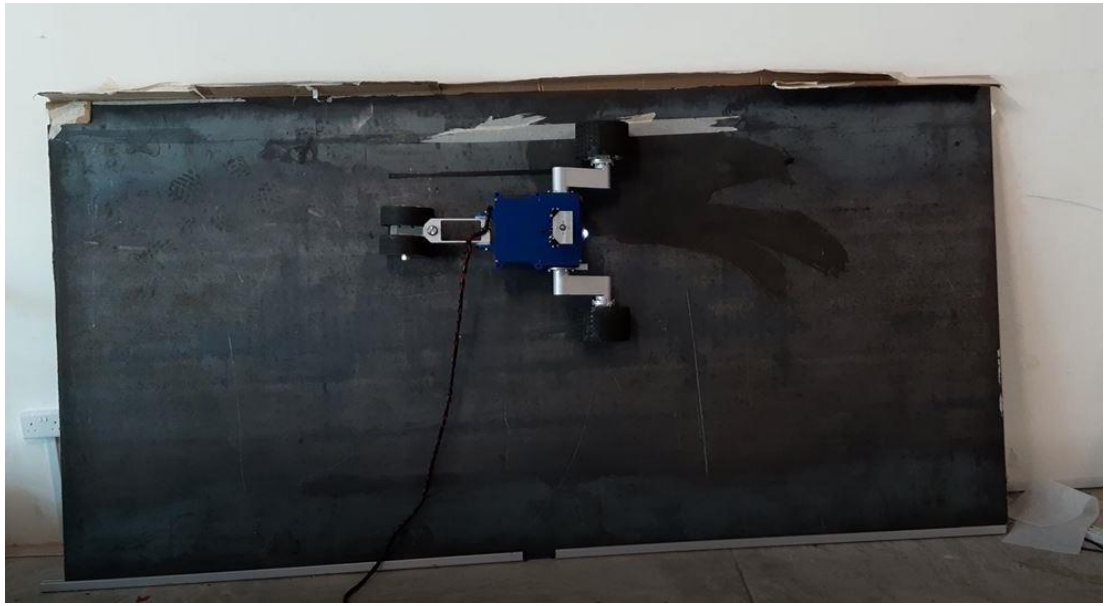


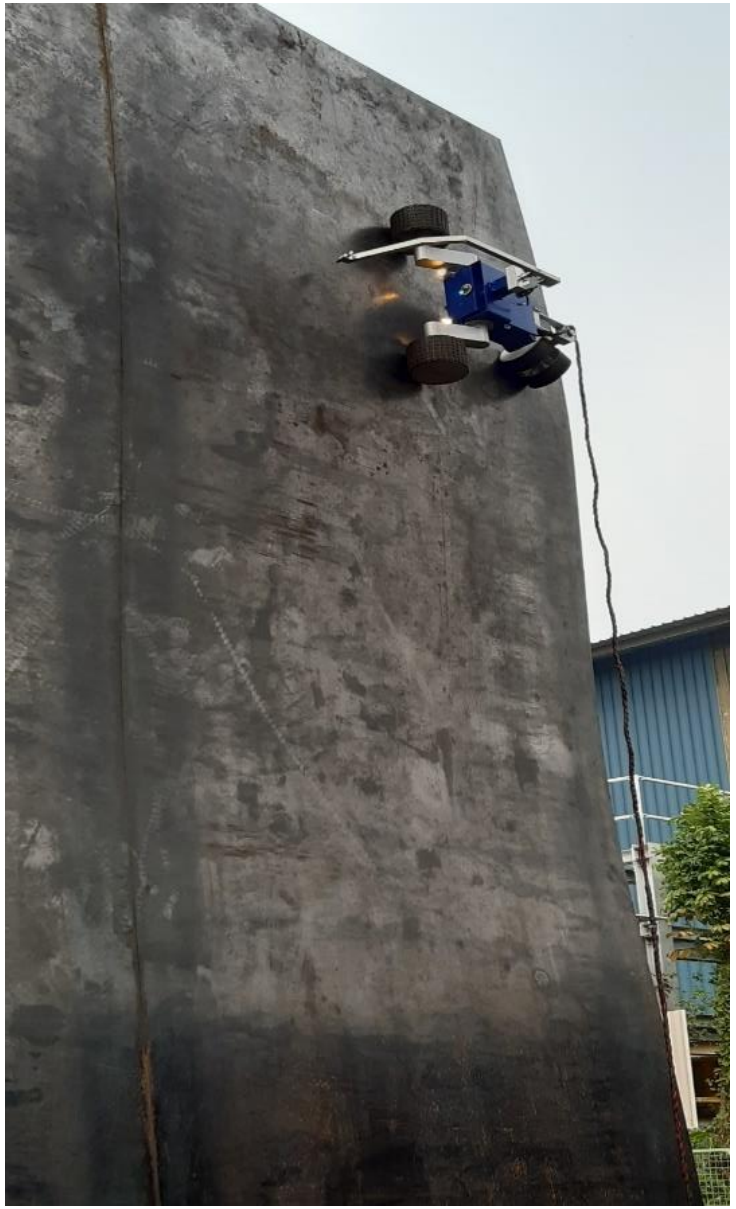
Designed and Developed a Lift Panel Cleaning Robot for Tampines Town Council to prevent the spread of Covid-19 through lift panels. The Demo was presented by me to the Cabinet Ministers of Singapore Government on National Media.

Strait Times Link: https://tinyurl.com/2zecetns

Ship Hull Surveillance Robot

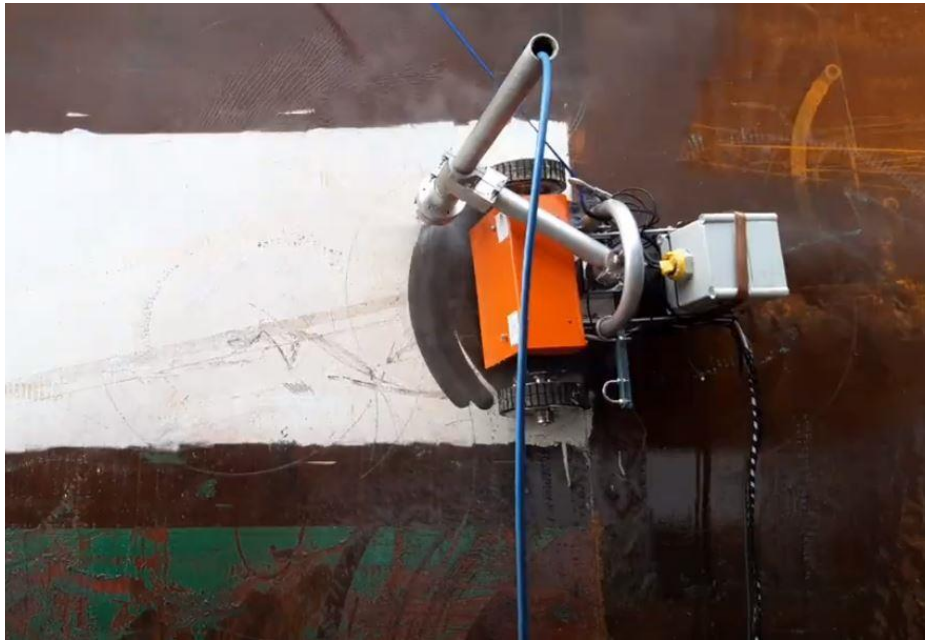
Designed and Fabricated the Mechanical and Electrical components of the ship hull Surveillance robot along with a 3 member team which was developed for the company Oceania Robotics based in Singapore.

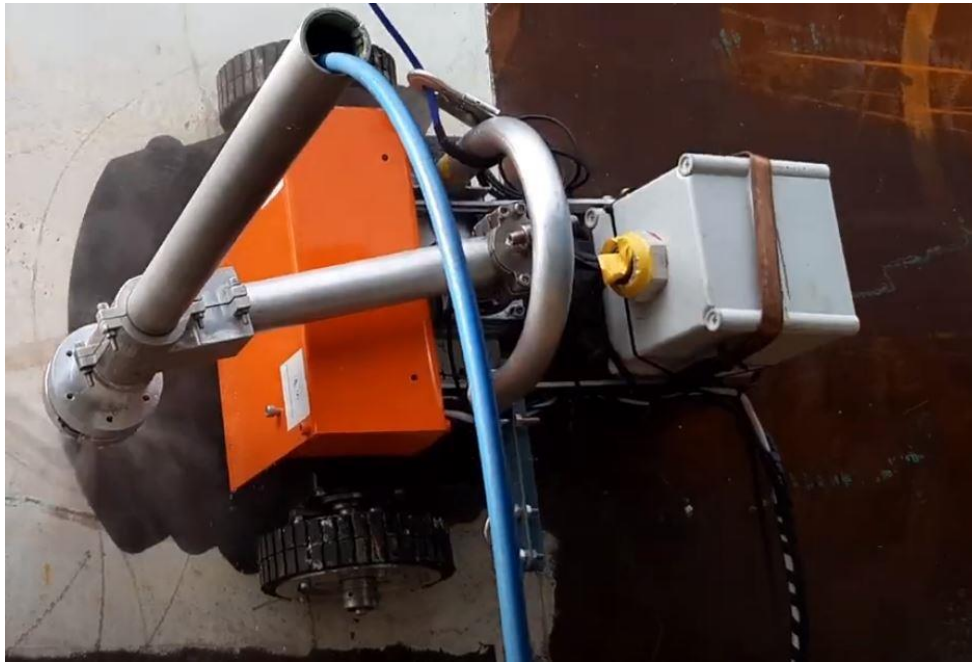




Ship Hull Cleaning Robot

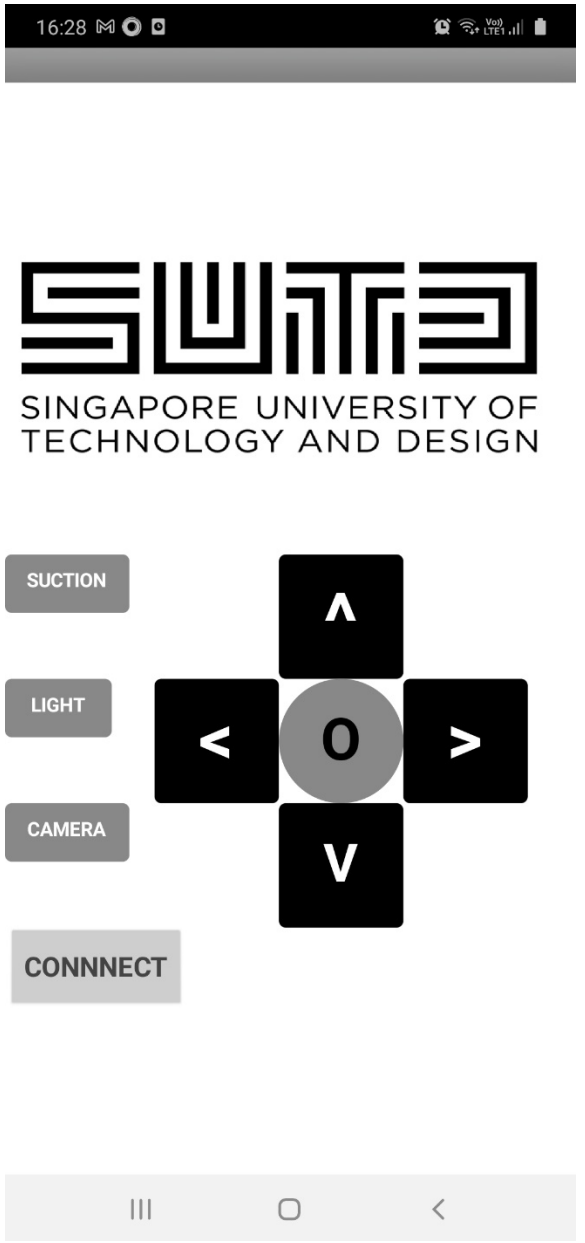
Lead Electrical Architect for the Ship hull cleaning robot which cleans the organic waste from the ship hull using high pressure cleaning systems. The platform is Tele Operated to ensure safety.





Glass Window Surveillance Robot

Designed and Developed a Vertical Glass Maneuvering robot named Wall-C which is used to check cracks on vertical glass structures. The platform adheres to the surface with the help of impellers and is controlled wirelessly by a self developed control app.

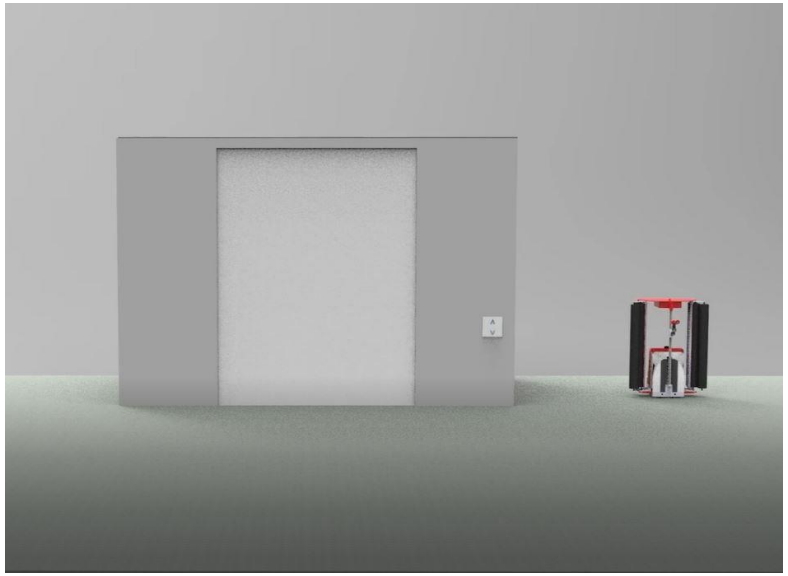


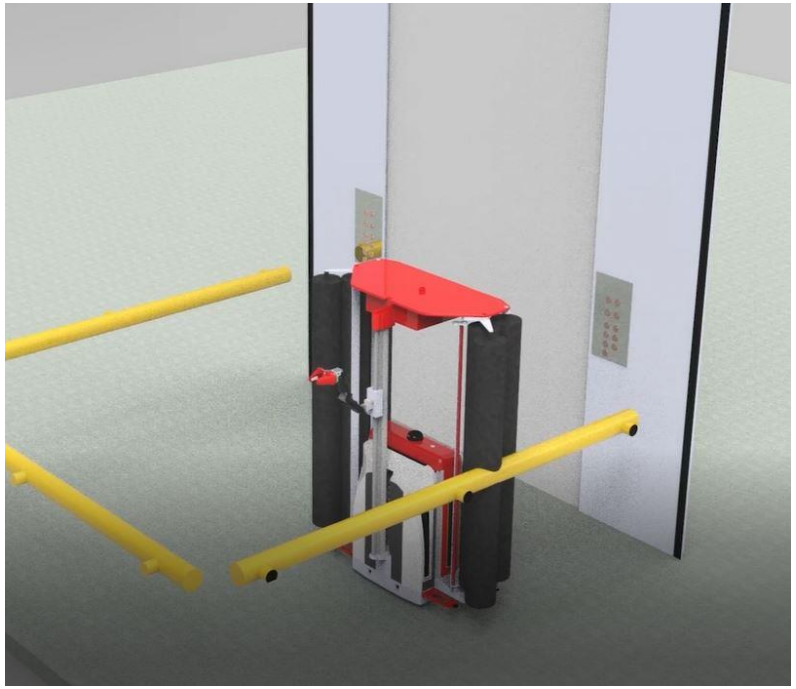
Educational Robotic Platform - Tiley

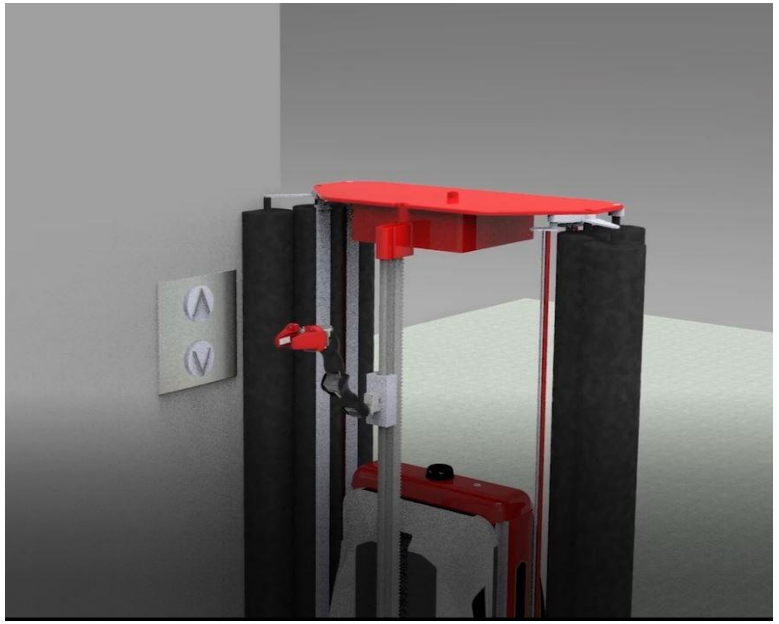
Lead Designer for an Education Robotic Platform named Tiley which was developed with an aim to make students learn robotics in a practical and constructive way. The Robot is reconfigurable and can be controlled through wireless app.

Lift Cleaning Robot Animation Project

Developed the script and Animation video in Keyshot software, presenting a futuristic lift cleaning robot which cleans the internal handles and panels of the lift, thus preventing contamination







Assembly Brochure Drafting

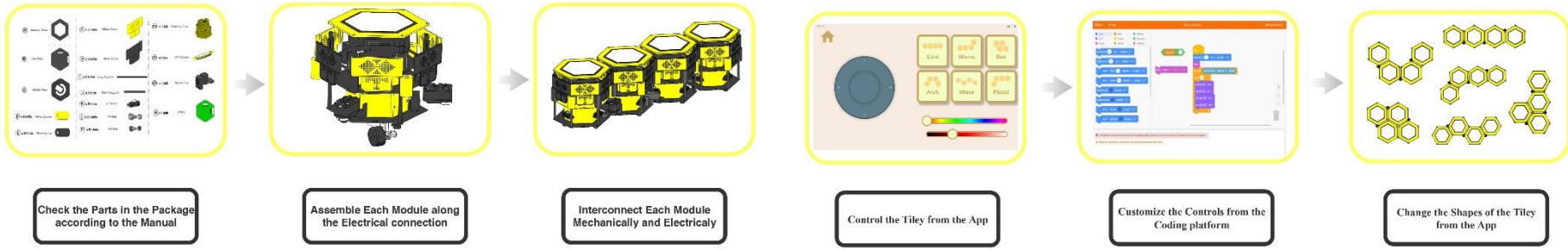
Designed and Drafted an Assembly Brochure for the Educational Robotic Platform named Tiley. The Drafting is done by using Solidworks Composer.

Quick Guide

● Here is a quick guide for you to get started easily

WARNING

- Keep this kit out of the reach of children or animals.
- Small parts may cause choking or serious injury if swallowed.



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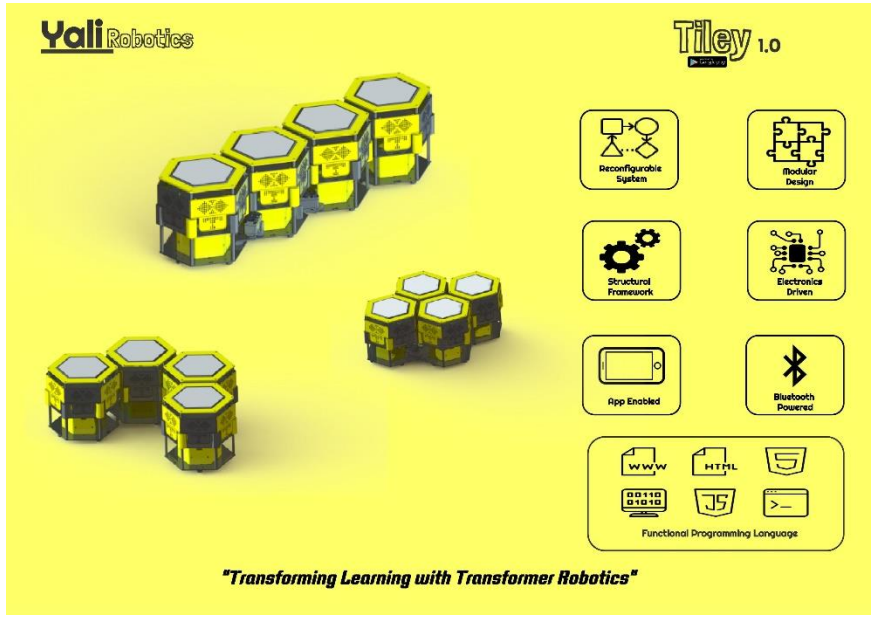

3

Basic Knowledge -- Assembly Tip

Attention

With many parts contained in this product, please assemble the Tiley V2 exactly as the steps in this instruction to avoid confusion Pay especially attention to the mark of "O" and "X". Make sure you are doing exactly as required by the diagram marked with "O" otherwise the parts may be broken and robot may fail to work normally.