

Robotics Association of Nepal

Kharibot, Ekantakuna
Nepal

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Food and Medicine Carrier Robot Test Press Release

Robotics Association of Nepal[RAN] has successfully made the first test of Food Carrying Robot at Teaching Hospital. On Chaitra 31st, the development team visited Teaching Hospital after the coordination with Teaching Hospital Biomedical Engineer. We had a conversation with the Control room after the testing information was transferred to director Dr. Prem Krishna Khadga. The team was taken to an isolation room where we had a conversation with nurses who were looking after the room and often exposed to COVID19 suspects.

Prithvi Chaudhary, the team lead of Robonauts, has a demo on how to operate the Robot and transport food in each of the beds. It was a perfect testing as the isolation ward was prepared for the possible COVID19 treatment.

Richan Joshi, Oztec led the conversation with the nurses on how to use the Robot with FPV set, how it can be easily controlled, how even healthcare professionals would be able to operate it for food delivery.

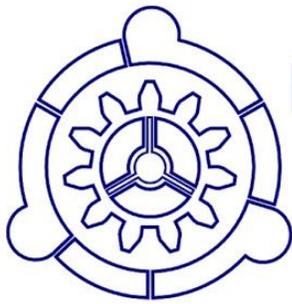
Pankaj Japrel, Kantibir made the coordination possible with the team at Teaching Hospital. He also successfully Navigated the Robot in the isolation ward. The Development team received good feedback on automatic sterilization of the Robot and patient to health professional communication and vice-versa. The robot was also demonstrated today to Honorable Minister Bhanu Bhakta Dhakal at 2 pm at the Ministry of Health and Population.

The Robot hopes to reduce the exposure of Nurse/Health professionals with COVID19 suspects and make sure treatment is continued with Proper Care.

Other Covid 19 Initiatives from RAN:

Drone Rapid Response Team COVID19 Nepal:

Robotics Association of Nepal[RAN] has been working on the Drone Rapid Response Team COVID-19 Nepal since the past Fourteen days along with Robotics and Tech Community [Robotics Association of Nepal Farwest](#), [RAN EAST](#), [Innovative Ghar Nepal](#), [GBS team](#), [Nepal](#)



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Flying Labs , NAXA, Madhukaa Drone Services : Complete Drone Solutions in Nepal, DroNEPAL, Airlift Nepal, Oztec, Quadcopters Nepal, Party Nepal and Jhole from Paradygm TV.

The Mission of DRRT COVID19 Nepal is to Make Robotics and Drone Community Response against COVID19 and support the government in monitoring the people's movement during the lockdown ensuring the people's privacy and data security.

Air Ventilator:

Robotics Association of Nepal's member Kapalik Khanal is working on a mechanical Ventilator system which uses an Ambu Bag to pump the air into the ventilator system. Kapalik is in the process of designing and developing a low-cost yet scalable mechanical ventilator with an aim of supplementing the scarcity of enough Ventilators in Nepalese hospitals.

Similarly Robotics Association of Nepal[RAN] with team Robonauts is also working on Mechanical Ventilator. It's the replica of Ventilator available in the teaching hospital. The 3D design has been built and we are printing the design to check and verify the working of the replica. Similarly the Air ventilator system consisting of Mechanical Valve is also in the Research phase.

Nepal Innovation Mapper tool:

Robotics Association of Nepal[RAN] has started Innovative Initiative Mapping Project with NAXA as digital partner in order to support Ministry of Health and Population [MoHP], Ministry of Home Affairs, Ministry of Industry, Commerce and Supplies by coordinating with NAST & Ministry of Education, Science & Technology and with the support of TAF (The Asia Foundation) attempts at identifying all COVID-19 related projects and initiatives in Nepal and South Asia through crowd reporting/crowd mapping and making the information open.

Apart from these initiatives RAN and its members are working to disseminate true news to the public via facebook page named True News in Nepal and RAN Farwest and the team are working for the testing booth for Covid 19.