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Students of GATES Institute of Technology Gooty develop bike ambulance

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The ambulance 'Heal-Mobile,' has been made under the guidance of the 3DEXPERIENCE Lab of Dassault SystÃ¨mes in Pune



Second-year mechanical engineering students Yeshwanth Subramanyam and S Ejaz Ahamed of the GATES Institute of Technology Gooty in Andhra Pradesh have developed a safe bike ambulance, 'Heal-Mobile,' under the guidance of the 3DEXPERIENCE Lab of Dassault Systèmes in Pune.

The bike ambulance's structure was developed using CATIA part design, CATIA assembly design, generative shape and wireframe, and live rendering studio applications powered by Dassault Systèmes' 3DEXPERIENCE platform. In case of emergency, these bike ambulances can safely carry one patient along with a medical worker as a rider to tackle any urgent medical situation to nearby primary and Community Health Centers (CHCs) from remote villages.

Every ambulance has a special leading link front suspension fitted as standard, improving the ambulance's off-road as well as on-road capabilities with an oxygen cylinder, patient monitor system, wheelchair and stretcher. Additionally, the bike ambulance can be attached to any bike available in the market. Additional 'Roof Bars' and all-weather covers ensure patient protection and help improve and facilitate the patient transfer. A footstep is provided for easy access to the stretcher that has multiple functions, wherein a patient can lean back and sit with outstretched legs. The patient can be buckled up with special belts provided to ensure safety while driving.

The idea to launch Heal Mobile intended to extend economical health relief through frugal innovation to the economically underprivileged sections of society during the COVID-19 pandemic. Heal Mobile will ferry patients, pregnant women and infants from remote areas to the nearest healthcare centre and hospitals in the Andhra Pradesh-Telegana - Karanataka region.

The 3DEXPERIENCE Lab is an open innovation laboratory and startup accelerator dedicated to nurturing and empowering disruptive projects and transforming society. The design of the bike ambulance is available online at the 3DEXPERIENCE Lab Frugal Innovation community so that the design can be available to NGOs, industry bodies, designers and engineers to create similar bike ambulances anywhere across the country.