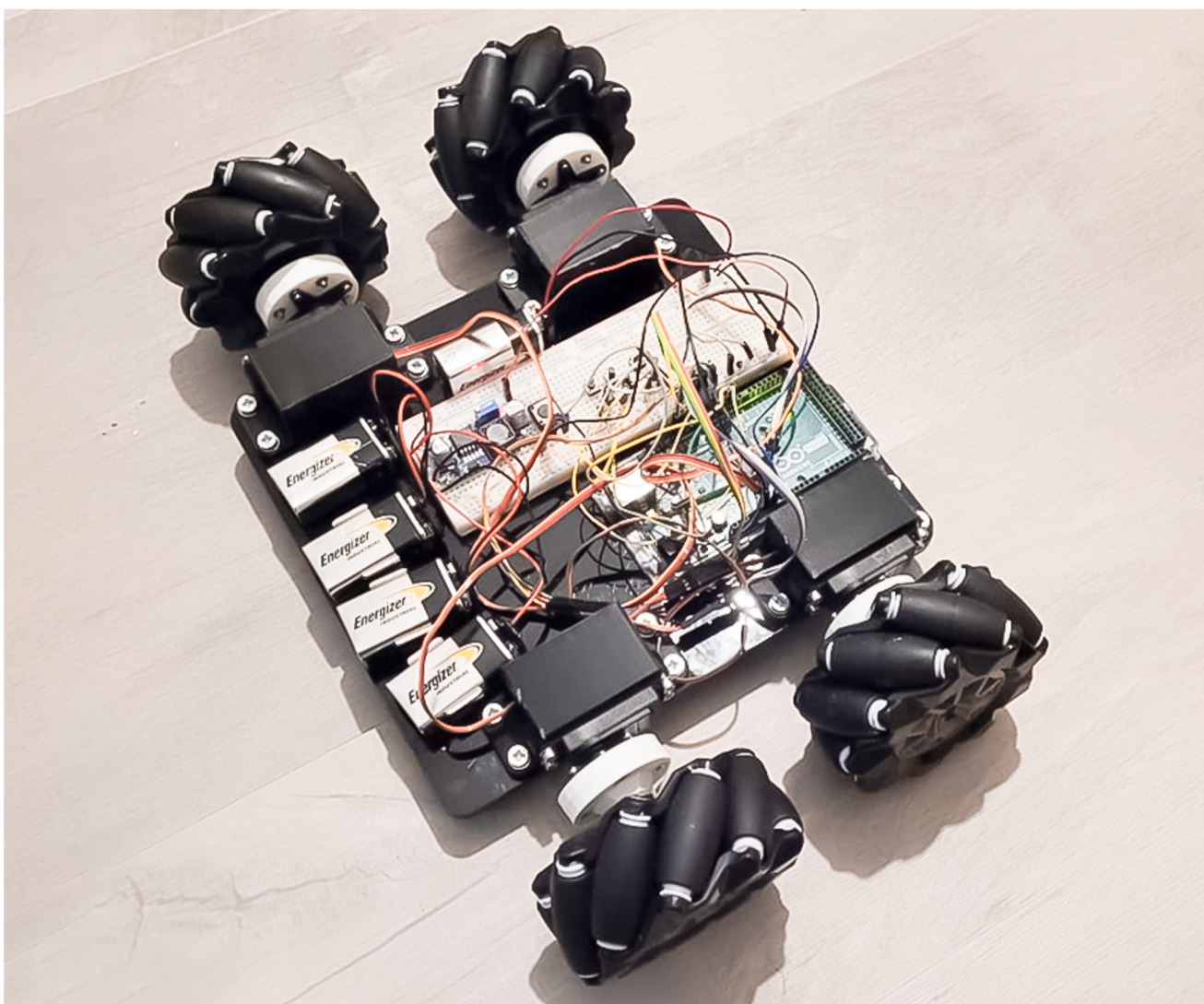
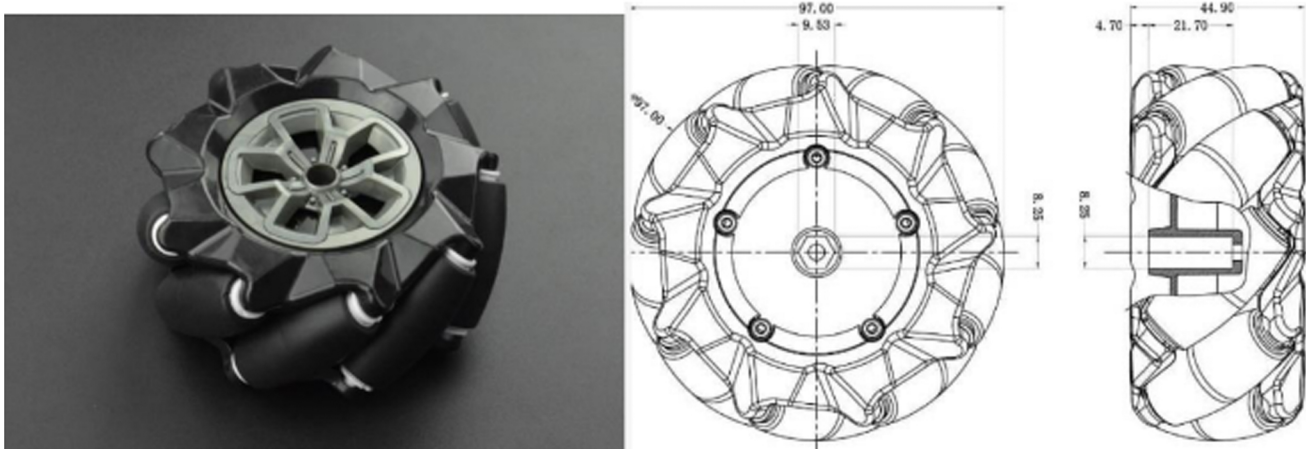




EP-CMX-SCI - An Inspection Robot



CERN operates the LHC (Large Hadron Collider) the largest particle accelerator ever built. Four main experiments were established on its circumference with the purpose of resolving major scientific enigmas. The general-purpose detector CMS (Compact Muon Solenoid) is one of these experiments. As part of the summer student program, a student -besides their lectures program, workshops, and other scientific activities- is asked to work on a project in one of CERN facilities. Some work has been done on the inspection robot project throughout August 2022. The final product is a prototype of reusable gadgets on a relatively low budget. The purpose was to initially study the problem of limited access to the radiation area of CMS cavern while beams are running and severe faults may occur. This study was intended to set the track on an appropriate solution.



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