

# STAIR CLIMBING ROBOT

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## ABSTRACT

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I have designed a stair climbing robot that is able to climb stairs, move on flat and rough surface. The purpose of this document is to document the entire job performed in order to design and build the structure of the project. The project was successfully completed with completion of designing, construction and final inspection by testing the structure. Frequent testing was done on individual components in order to ensure all the components were working before the final construction. The project was completed within the estimated time and under the estimated budget. The structure was tested several times. A step-by-step construction of the robot will be shown in the report. The robot has four "Tri-Star Wheel". Some of the calculations are used to build "Tri-star Wheel" and these calculations are shown in this report. There are some diagrams and pictures have been attached in giving the reader more idea and easy understanding on the project and the concept of how it is manufactured and works.