

Bronze Prize

Seoul International Invention Fair 2010 (SIIF 2010)



Wheelchair Control by Microcontroller

Electri-Powered Wheelchair are the only way of movement for too many disbled users. Electronic controllers can help a people who uses a wheelchair drive smoothly, brake easily, and make the wheelchair move with the touch of a hand. Some hand controllers look like a joystick used to play video games and are easy to operate. Wheelchair controlled by micro controller PIC16F877 via Joystick. All directions, moving forward or backward and turning right and left side, are controlled by rear wheels. It is removable and foldable when users need to travel in long distance. This Electric Wheelchair has twin motors proving a maximum speed of 4 mph and a traveling distance of 2 kilometer with a maximum user weight of 100 kilogram.

Overall, the design of the concept is lowest price. Meaning it should be prefer for and users and also hospitals.

Patent application number : pending

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