Tinkering lab – Innovative Project

Project Title: Development of Automated Intelligent Robot, Using Open Computer Vision (CV)

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Abstract:

Automatic Vision based robots are intelligent robots which take visual data, process it and provide appropriate output. These robots are totally independent and don't need any kind of human intervention, since they are pre-fed with instructions. A robot is designed on Raspberry Pi using Open CV, which is used for sign detection based on its color, size and shape. It can detect only one sign at a time.

The aim is to deliver files from the source to the specified destination, while avoiding any collisions on the way. The robot is built to carry the information from source to destination, without any human interference.