

# Motion Tracker

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## Implementation:

- Learning about Arduino/Raspberry pi coding, Matlab, OpenCV.(10 days)
- Image processing using software and generating required outcome.
- Working on mechanical body of Robot.
- Electrical circuit and its best possible placement.(Both mechanical n electrical part take around 20-25 days).
- Basic idea would be that using opencv, the motion of the object will be tracked and information will be available in some format such as coordinates of object in 3-D. These coordinates will be thus used as logic to control bot movements accordingly. Also Dynamic flow of information to bot will repeatedly and correspondingly steer the bot movements.
- Debugging and finishing (Remaining 2 weeks).

## Components:

- Raspberry pi board. ( Around- 800)
- Camera.
- Mechanical equipments.
- Electrical components.
- Total cost (almost 5000)

## Learning Outcomes:

- About Raspberry pi coding.
- Working of image processing softwares such as OpenCV.
- About Fast motion tracking and coordinated result.
- About wireless control.