

## **ACKNOWLEDGEMENT**

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## **ABSTRACT**

Security of home becomes important when it's members are not present. This can be done using a autonomous robot. Autonomous vision based robots are intelligent robots which take visual data, process it and provide appropriate output. A robot can be designed on Raspberry-Pi using OpenCV which is capable of human detection. This robot will be an independent machine for human detection. We plan to build an autonomous robot which is capable for identifying a person, following him, sending his actions to the owner over telegram.

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## **Abbreviation**

SRS  
UDP  
COCOMO  
SSD  
LBP

Software Requirement Specification  
User Datagram Protocol  
Constructive Cost Model  
Single Shot Detection  
Local Binary Pattern