

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**Belagavi – 590 010**



**PROJECT REPORT  
ON**

**“AUTOMATIC HUMAN DETECTION AND  
TARGETING”**

**Submitted in partial fulfillment of the requirements for the award of degree**

**BACHELOR OF ENGINEERING  
IN  
ELECTRONICS & COMMUNICATION ENGINEERING**

**Submitted By**

**Name**  
**Suma Benchihalli**  
**Pavan Kumar**  
**Shetty Amar Bhaskar**  
**Shetty Krishna Vasanth**

**USN**  
**4AL12EC084**  
**4AL13EC410**  
**4AL13EC414**  
**4AL13EC415**

**Under the Guidance of**  
**Ms. Kumari Shruthi**  
**Assistant Professor**  
**Department of E&C Engineering**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY**  
**MOODBIDRI – 574 225.**

**2015-2016**

# ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

MOODBIDRI – 574 225

(Affiliated to VTU, BELAGAVI)

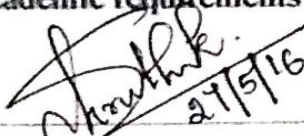
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

## CERTIFICATE

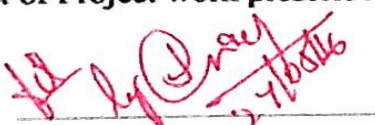
*Certified that the project work entitled "AUTOMATIC HUMAN DETECTION AND TARGETING" is a bona fide work carried out by*

<b>Suma Benchihalli</b>	<b>4AL12EC084</b>
<b>Pavan Kumar</b>	<b>4AL13EC410</b>
<b>Shetty Amar Bhaskar</b>	<b>4AL13EC414</b>
<b>Shetty Krishna Vasanth</b>	<b>4AL13EC415</b>

in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS & COMMUNICATION ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2015–2016. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

  
27/5/16

Signature of the Guide  
Ms. Kumari Shruthi

  
27/5/16

Signature of the H.O.D  
Prof. Raghavendra Rao A.



Signature of the Principal  
Dr. Peter Fernandes  
PRINCIPAL

Alva's Institute of Engg. & Technology,  
Mqar, MOODBIDRI - 574 225, D.K.

### EXTERNAL VIVA

Name of the Examiners

Signature with date

1.....

.....

2.....

.....

## **ABSTRACT**

High altitude borders of India pose a great challenge to soldiers. Apart from their duty to defend the enemy, they have to struggle a lot to resist the extreme cold weather in those regions. This project aims at providing an aid to this problem by replacing soldiers with this system. It is a fully automatic system, thus no manual assistance is needed. Defence systems of features like automatic human recognition, automatic motion sensing, automatic firing, video recording system etc.

Apart from this technique, efficient human detection and targeting system identifies the presence of human and automatically gun target and fire if found an object within a range of sensors. As it is equipped with mechanisms for automatic firing only to the assailant, there is no harm for Indian soldiers as well as others, since it provide mechanism for differentiating friendly personnel from enemies. This project will not fully remove the responsibility from their soldiers, but shares the maximum responsibility and will reduce human mistakes on the border. Also this device can withstand extreme climatic conditions, thus the device needed less maintenance.