

**TRIBHUVAN UNIVERSITY**

**INSTITUTE OF ENGINEERING**

**THAPATHALI CAMPUS**

**A Proposal On**

**Artificially Intelligent Humanoid Robot**

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A PROPOSAL

SUBMITTED TO TECHNICAL COMMITTEE, FREE STUDENTS UNION FOR PROVISION OF FUND FOR ABOVE MENTIONED PROJECT

FREE STUDENTS UNION

THAPATHALI CAMPUS

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# ABSTRACT

With the recent release of humanoid robot like Sophia by Hansen robotics the humanoid robots have become the buzzword in the current tech-circle. Humanoid in current sense refers to any automatic/robotic system that resembles a human in its shape and or intelligence. The use of humanoid is growing common in the current market world , with its diverse field of application humanoid is putting its mark in every field. “Jarvis” our current project is also heading to touch its application to the various filed; helping humans to carry out some mechanical work, developing itself to use peaks of AI and many other technicals endeavour are its use of field. Walking, lifting objects, using its intelligence to handle its own body frame, using camera module to use face recognition and object detection , interaction using AI, computing music and using its body parts to show some motion to the music and further achievements to excel its application. AI as the main backbone of our project Jarvis will continue its application field to enhance the works.

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# LIST OF ABBREVATIONS

|  |  |
| --- | --- |
| AC | Alternating Current |
| ADC | Analog to Digital Converter |
| API | Application Programming Interface |
| BCM | Broadcom |
| CMOS | Complementary Metallic Oxide Semiconductor |
| CMS | Center Monitoring System |
| CSS | Cascading Style Sheets |
| DHCP | Dynamic Host Control Protocol |
| et al. | And Others |
| FTP | File Transfer Protocol |
| FTPS | File Transfer Protocol Secure |
| GIS | Geographic Information System |
| GPIO | General Purpose Input Output |
| GPRS | General Packet Radio Service |
| GPS | Global Positioning System |
| GPU | Graphics Processor Unit |
| GUI | Graphical User Interface |
| HDMI | High Definition Media Interface |
| HTTP | Hypertext Transfer Protocol |
| HTML | Hypertext Markup Language |
| IDLE | Integrated Development Environment |
| IP | Internet Protocol |
| IOT | Internet Of Things |
| ISP | Internet Service Provider |
| ISR | Interrupt Service Routine |
| IT | Information Technology |

# INTRODUCTION

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## Background Introduction

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## Objectives

* Objective here.
* Objective here.

## Scope of Project

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# LITERATURE REVIEW

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## Sub-heading 1

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## Sub-heading 2

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# METHODOLOGY

## System Block Diagram

Figure 3‑1 system block diagram

## Description of Working Principle

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## Instrumentation

### Hardware Requirements

1. Hardware requirement
2. Hardware requirement
3. Hardware requirement

### Software Requirements

1. Software requirements
2. Software requirements
3. Software requirements

# EXPECTED OUTCOME

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# PROJECT APPLICATION

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# PROJECT SCHEDULE

Figure 6‑2 Gantt chart

# COST ESTIMATION

# REFERENCE