("ವಿ ಟಿ ಯು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ) "ಜ್ಞಾನ ಸಂಗಮ", ಬೆಳಗಾವಿ-590018, ಕರ್ನಾಟಕ, ಭಾರತ

Visvesvaraya Technological University

(State University of Government of Karnataka. Established as per the VTU Act, 1994) "Jnana Sangama" Belagavi-590018, Karnataka, India.



A PROJECT REPORT ON

"DESIGN AND DEVELOPMENT OF VERSATILE HUMANOID SERVICE ROBOT"

Submitted in the partial fulfilment for the award of

BACHELOR OF TECHNOLOGY

in

ROBOTICS AND AUTOMATION

Submitted by

CHINMAYAGOUDA PATIL 2VX20RA004

DIVYA L HEGDE 2VX20RA005

SANNIDHI J 2VX20RA010

YOGESH BADIGER 2VX20RA012

SUMANT MALAJI 2VX21RA408

Under the Guidance of

Dr. Anil Pol

Assistant Professor

Department of Mechanical Engineering, VTU, Belagavi-590018

("ವಿ ಟಿ ಯು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ) "ಜ್ಞಾನ ಸಂಗಮ", ಬೆಳಗಾಖ-590018, ಕರ್ನಾಟಕ, ಭಾರತ

Visvesvaraya Technological University

(State University of Government of Karnataka. Established as per the VTU Act, 1994) "Jnana Sangama" Belagavi-590018, Karnataka, India.



DECLARATION

I, CHINMAYAGOUDA PATIL, bearing USN: 2VX20RA004, a student of the eighth semester B.Tech in Robotics and Automation at Visvesvaraya Technological University, Belgaum, hereby declare that this dissertation entitled "DESIGN AND DEVELOPMENT OF VERSATILE HUMANOID SERVICE ROBOT" embodies the report of my project completed in the Department of Mechanical Engineering, Visvesvaraya Technological University, "Jnana Sangama," Belagavi during the final semester under the guidance of Dr. Anil Pol, Asst. Professor, Department of Mechanical Engineering, Visvesvaraya Technological University, Belagavi. This report is submitted in partial fulfillment of the requirements for the award of Bachelor of Technology in Robotics and Automation at Visvesvaraya Technological University, Belagavi, during the academic year 2023–24.

Place: Belagavi CHINMAYAGOUDA PATIL

("ವಿ ಟಿ ಯು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ) "ಜ್ಞಾನ ಸಂಗಮ", ಬೆಳಗಾಖ-590018, ಕರ್ನಾಟಕ, ಭಾರತ

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DECLARATION

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Place: Belagavi SANNIDHI J

("ವಿ ಟಿ ಯು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ) "ಜ್ಞಾನ ಸಂಗಮ", ಬೆಳಗಾಖ-590018, ಕರ್ನಾಟಕ, ಭಾರತ

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DECLARATION

I, SUMANT MALAJI, bearing USN: 2VX21RA408, a student of the eighth semester B.Tech in Robotics and Automation at Visvesvaraya Technological University, Belgaum, hereby declare that this dissertation entitled "DESIGN AND DEVELOPMENT OF VERSATILE HUMANOID SERVICE ROBOT" embodies the report of my project completed in the Department of Mechanical Engineering, Visvesvaraya Technological University, "Jnana Sangama," Belagavi during the final semester under the guidance of Dr. Anil Pol, Asst. Professor, Department of Mechanical Engineering, Visvesvaraya Technological University, Belagavi. This report is submitted in partial fulfillment of the requirements for the award of Bachelor of Technology in Robotics and Automation at Visvesvaraya Technological University, Belagavi, during the academic year 2023–24.

Place: Belagavi SUMANT MALAJI

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DECLARATION

I, DIVYA L HEGDE, bearing USN: 2VX20RA005, a student of the eighth semester B.Tech in Robotics and Automation at Visvesvaraya Technological University, Belgaum, hereby declare that this dissertation entitled "DESIGN AND DEVELOPMENT OF VERSATILE HUMANOID SERVICE ROBOT" embodies the report of my project completed in the Department of Mechanical Engineering, Visvesvaraya Technological University, "Jnana Sangama," Belagavi during the final semester under the guidance of Dr. Anil Pol, Asst. Professor, Department of Mechanical Engineering, Visvesvaraya Technological University, Belagavi. This report is submitted in partial fulfillment of the requirements for the award of Bachelor of Technology in Robotics and Automation at Visvesvaraya Technological University, Belagavi, during the academic year 2023–24.

Place: Belagavi DIVYA L HEGDE

("ವಿ ಟಿ ಯು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ) "ಜ್ಞಾನ ಸಂಗಮ", ಬೆಳಗಾಖ-590018, ಕರ್ನಾಟಕ, ಭಾರತ

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DECLARATION

I, YOGESH BADIGER, bearing USN: 2VX20RA012, a student of the eighth semester B.Tech in Robotics and Automation at Visvesvaraya Technological University, Belgaum, hereby declare that this dissertation entitled "DESIGN AND DEVELOPMENT OF VERSATILE HUMANOID SERVICE ROBOT" embodies the report of my project completed in the Department of Mechanical Engineering, Visvesvaraya Technological University, "Jnana Sangama," Belagavi during the final semester under the guidance of Dr. Anil Pol, Asst. Professor, Department of Mechanical Engineering, Visvesvaraya Technological University, Belagavi. This report is submitted in partial fulfillment of the requirements for the award of Bachelor of Technology in Robotics and Automation at Visvesvaraya Technological University, Belagavi, during the academic year 2023–24.

Place: Belagavi YOGESH BADIGER

("ವಿ ಟಿ ಯು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ) "ಜ್ಞಾನ ಸಂಗಮ", ಬೆಳಗಾವಿ-590018, ಕರ್ನಾಟಕ, ಭಾರತ

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We, the students of eighth semester B-Tech Robotics and Automation, Visvesvaraya Technological University, Belgaum, hereby declare that this project report entitled "DESIGN AND DEVELOPMENT OF VERSATILE HUMANOID ROBOT" embodies the details of our project completed at the Department of Mechanical Engineering, Visvesvaraya Technological University, "Jnana Sangama," Belagavi, under the guidance of Dr. Anil Pol, Professor of the Department of Mechanical Engineering, Visvesvaraya Technological University, Belagavi. This report is submitted in partial fulfillment of the award of Bachelor of Technology in Robotics and Automation at Visvesvaraya Technological University, Belagavi, during the academic year 2023–24.

CHINMAYAGOUDA PATIL 2VX20RA004
DIVYA L HEGDE 2VX20RA005
SANNIDHI J 2VX20RA010
YOGESH BADIGER 2VX20RA012
SUMANT MALAJI 2VX21RA408

Place: Belagavi

Date:

("ವಿ ಟಿ ಯು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ) "ಜ್ಞಾನ ಸಂಗಮ", ಬೆಳಗಾಖ-590018, ಕರ್ನಾಟಕ, ಭಾರತ

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DEPARTMENT OF MECHANICAL ENGINEERING CERTIFICATE

This is to certify that the project (18RAP83) work titled "DESIGN AND DEVELOPMENT OF VERSATILE HUMANOID ROBOT" is a bonafide work completed by Mr. CHINMAYAGOUDA PATIL bearing USN: 2VX20RA004, a student of the Department of Mechanical Engineering, Visvesvaraya Technological University, "Jnana Sangama," Belagavi, in partial fulfillment of the requirements for the award of Bachelor of Technology in Robotics and Automation of Visvesvaraya Technological University Belagavi during the academic year 2023–24. It is certified that all the corrections or suggestions have been approved as they satisfy the academic requirements concerning the project work prescribed by VTU, Belagavi, for the said degree.

Name of the Examiners:	
1)	Dr. Anil Pol
2)	Guide

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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

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Visvesvaraya Technological University

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This is to certify that the Project (18RAP83) work, titled "DESIGN AND DEVELOPMENT OF VERSATILE HUMANOID SERVICE ROBOT," is a bonafide work completed by the students of the Department of Mechanical Engineering, Visvesvaraya Technological University, "Jnana Sangama," Belagavi, in partial fulfillment for the award of Bachelor of Technology in Robotics and Automation of Visvesvaraya Technological University, Belagavi, during the academic year 2023–24. It is certified that all the corrections or suggestions have been approved as they satisfy the academic requirements concerning the project work prescribed by VTU, Belagavi, for the said degree.

CHINMAYAGOUDA PATIL	2VX20RA004
DIVYA L HEGDE	2VX20RA005
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SUMANTH MALAGI	2VX21RA408

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A PROJECT REPORT

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in

ROBOTICS AND AUTOMATION

Submitted by

CHINMAYAGOUDA PATIL

2VX20RA004

Under the Guidance of

Dr. Anil Pol

Assistant Professor
Department of Mechanical Engineering, VTU, Belagavi.590018
2023-2024

("ವಿ ಟಿ ಯು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ) "ಜ್ಞಾನ ಸಂಗಮ", ಬೆಳಗಾವಿ-590018, ಕರ್ನಾಟಕ, ಭಾರತ

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2VX21RA408

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