## **A Project Report**

On

# **Automated Storage and Retrieval System**

Submitted in partial fulfilment of the requirement for the course of

# INSTITUTIONAL SPONSORED PROJECT 21EARW492

Department of Automation & Robotics

# Under the guidance of

Prof. Arun C Giriyapur Prof. Sachin Karadgi Kartik Lakamanhalli



### **CERTIFICATE**

Incorporated under KLE Technological University Act-2012; Karnataka Act 22 of 2013 Earlier known as

B. V. Bhoomaraddi College of Engineering & Technology Vidyanagar, Hubballi

**Department of Automation & Robotics** 

2021 - 2022

This is to certify that Amogh Sutar (01FE18BAR005), Amrut Kurtkoti (01FE18BAR007), Anant Maliye (01FE18BAR008), K V S S Prathyush (01FE18BAR021), Malhar Kulkarni (01FE18BAR022), Prasad Basaragi (01FE18BAR027), Ranjeet Shingade (01FE18BAR031) and Ritika Javalagi (01FE18BAR032) has satisfactorily completed the course INSTITUTIONAL SPONSORED PROJECT (21EARW492).

SACHIN KARADGI

01-JAN-2011

Staff in-charge

Examiner 2! Nume: A. C. Ciriyapur Juli 2022

## **A Project Report**

On

# **Automated Storage and Retrieval System**

Submitted in partial fulfilment of the requirement for the course of

# INSTITUTIONAL SPONSORED PROJECT 21EARW492

Department of Automation & Robotics

# Under the guidance of

Prof. Arun C Giriyapur Prof. Sachin Karadgi Kartik Lakamanhalli



### **CERTIFICATE**

Incorporated under KLE Technological University Act-2012; Karnataka Act 22 of 2013 Earlier known as

B. V. Bhoomaraddi College of Engineering & Technology Vidyanagar, Hubballi

**Department of Automation & Robotics** 

2021 - 2022

This is to certify that Amogh Sutar (01FE18BAR005), Amrut Kurtkoti (01FE18BAR007), Anant Maliye (01FE18BAR008), K V S S Prathyush (01FE18BAR021), Malhar Kulkarni (01FE18BAR022), Prasad Basaragi (01FE18BAR027), Ranjeet Shingade (01FE18BAR031) and Ritika Javalagi (01FE18BAR032) has satisfactorily completed the course INSTITUTIONAL SPONSORED PROJECT (21EARW492).

SACHIN KARADGI

01-JAN-2011

Staff in-charge

Examiner 2! Nume: A. C. Ciriyapur Juli 2022



Date: 14 June, 2022

Employee Name:Anant Maliye Employee ID: 300078090

Dear Anant Maliye,

This is to inform that Anant Maliye was associated with Rakuten India has technical intern from Jan 27, 22 to May 31, 22.

We thank you for your association with Rakuten India. We wish you great success in your future endeavours.

Your service record with the company is as follows:

Date of Joining Rakuten India Enterprise Private Limited: Working Day at Rakuten India Enterprise Private Limited: Last Designation:

Jan 27, 22 May 31,22 Technical Intern

For Rakuten India Enterprise Private Limited

\*Nisha Verma People Organization

\*This is a system generated letter and does not require any signature

## **A Project Report**

On

# **Automated Storage and Retrieval System**

Submitted in partial fulfilment of the requirement for the course of

# INSTITUTIONAL SPONSORED PROJECT 21EARW492

Department of Automation & Robotics

# Under the guidance of

Prof. Arun C Giriyapur Prof. Sachin Karadgi Kartik Lakamanhalli



### **CERTIFICATE**

Incorporated under KLE Technological University Act-2012; Karnataka Act 22 of 2013 Earlier known as

B. V. Bhoomaraddi College of Engineering & Technology Vidyanagar, Hubballi

**Department of Automation & Robotics** 

2021 - 2022

This is to certify that Amogh Sutar (01FE18BAR005), Amrut Kurtkoti (01FE18BAR007), Anant Maliye (01FE18BAR008), K V S S Prathyush (01FE18BAR021), Malhar Kulkarni (01FE18BAR022), Prasad Basaragi (01FE18BAR027), Ranjeet Shingade (01FE18BAR031) and Ritika Javalagi (01FE18BAR032) has satisfactorily completed the course INSTITUTIONAL SPONSORED PROJECT (21EARW492).

SACHIN KARADGI

01-JAN-2011

Staff in-charge

Examiner 2! Nume: A. C. Ciriyapur Juli 2022

## **A Project Report**

On

# **Automated Storage and Retrieval System**

Submitted in partial fulfilment of the requirement for the course of

# INSTITUTIONAL SPONSORED PROJECT 21EARW492

Department of Automation & Robotics

# Under the guidance of

Prof. Arun C Giriyapur Prof. Sachin Karadgi Kartik Lakamanhalli



### **CERTIFICATE**

Incorporated under KLE Technological University Act-2012; Karnataka Act 22 of 2013 Earlier known as

B. V. Bhoomaraddi College of Engineering & Technology Vidyanagar, Hubballi

**Department of Automation & Robotics** 

2021 - 2022

This is to certify that Amogh Sutar (01FE18BAR005), Amrut Kurtkoti (01FE18BAR007), Anant Maliye (01FE18BAR008), K V S S Prathyush (01FE18BAR021), Malhar Kulkarni (01FE18BAR022), Prasad Basaragi (01FE18BAR027), Ranjeet Shingade (01FE18BAR031) and Ritika Javalagi (01FE18BAR032) has satisfactorily completed the course INSTITUTIONAL SPONSORED PROJECT (21EARW492).

SACHIN KARADGI

01-JAN-2011

Staff in-charge

Examiner 2! Nume: A. C. Ciriyapur Juli 2022

## **A Project Report**

On

# **Automated Storage and Retrieval System**

Submitted in partial fulfilment of the requirement for the course of

# INSTITUTIONAL SPONSORED PROJECT 21EARW492

Department of Automation & Robotics

# Under the guidance of

Prof. Arun C Giriyapur Prof. Sachin Karadgi Kartik Lakamanhalli



### **CERTIFICATE**

Incorporated under KLE Technological University Act-2012; Karnataka Act 22 of 2013 Earlier known as

B. V. Bhoomaraddi College of Engineering & Technology Vidyanagar, Hubballi

**Department of Automation & Robotics** 

2021 - 2022

This is to certify that Amogh Sutar (01FE18BAR005), Amrut Kurtkoti (01FE18BAR007), Anant Maliye (01FE18BAR008), K V S S Prathyush (01FE18BAR021), Malhar Kulkarni (01FE18BAR022), Prasad Basaragi (01FE18BAR027), Ranjeet Shingade (01FE18BAR031) and Ritika Javalagi (01FE18BAR032) has satisfactorily completed the course INSTITUTIONAL SPONSORED PROJECT (21EARW492).

SACHIN KARADGI

01-JAN-2011

Staff in-charge

Examiner 2! Nume: A. C. Ciriyapur Juli 2022

## **A Project Report**

On

# **Automated Storage and Retrieval System**

Submitted in partial fulfilment of the requirement for the course of

# INSTITUTIONAL SPONSORED PROJECT 21EARW492

Department of Automation & Robotics

# Under the guidance of

Prof. Arun C Giriyapur Prof. Sachin Karadgi Kartik Lakamanhalli



### **CERTIFICATE**

Incorporated under KLE Technological University Act-2012; Karnataka Act 22 of 2013 Earlier known as

B. V. Bhoomaraddi College of Engineering & Technology Vidyanagar, Hubballi

**Department of Automation & Robotics** 

2021 - 2022

This is to certify that Amogh Sutar (01FE18BAR005), Amrut Kurtkoti (01FE18BAR007), Anant Maliye (01FE18BAR008), K V S S Prathyush (01FE18BAR021), Malhar Kulkarni (01FE18BAR022), Prasad Basaragi (01FE18BAR027), Ranjeet Shingade (01FE18BAR031) and Ritika Javalagi (01FE18BAR032) has satisfactorily completed the course INSTITUTIONAL SPONSORED PROJECT (21EARW492).

SACHIN KARADGI

01-JAN-2011

Staff in-charge

Examiner 2! Nume: A. C. Ciriyapur Juli 2022

## **A Project Report**

On

# **Automated Storage and Retrieval System**

Submitted in partial fulfilment of the requirement for the course of

# INSTITUTIONAL SPONSORED PROJECT 21EARW492

Department of Automation & Robotics

# Under the guidance of

Prof. Arun C Giriyapur Prof. Sachin Karadgi Kartik Lakamanhalli



### **CERTIFICATE**

Incorporated under KLE Technological University Act-2012; Karnataka Act 22 of 2013 Earlier known as

B. V. Bhoomaraddi College of Engineering & Technology Vidyanagar, Hubballi

**Department of Automation & Robotics** 

2021 - 2022

This is to certify that Amogh Sutar (01FE18BAR005), Amrut Kurtkoti (01FE18BAR007), Anant Maliye (01FE18BAR008), K V S S Prathyush (01FE18BAR021), Malhar Kulkarni (01FE18BAR022), Prasad Basaragi (01FE18BAR027), Ranjeet Shingade (01FE18BAR031) and Ritika Javalagi (01FE18BAR032) has satisfactorily completed the course INSTITUTIONAL SPONSORED PROJECT (21EARW492).

SACHIN KARADGI

01-JAN-2011

Staff in-charge

Examiner 2! Nume: A. C. Ciriyapur Juli 2022

## **A Project Report**

On

# **Automated Storage and Retrieval System**

Submitted in partial fulfilment of the requirement for the course of

# INSTITUTIONAL SPONSORED PROJECT 21EARW492

Department of Automation & Robotics

# Under the guidance of

Prof. Arun C Giriyapur Prof. Sachin Karadgi Kartik Lakamanhalli



### **CERTIFICATE**

Incorporated under KLE Technological University Act-2012; Karnataka Act 22 of 2013 Earlier known as

B. V. Bhoomaraddi College of Engineering & Technology Vidyanagar, Hubballi

**Department of Automation & Robotics** 

2021 - 2022

This is to certify that Amogh Sutar (01FE18BAR005), Amrut Kurtkoti (01FE18BAR007), Anant Maliye (01FE18BAR008), K V S S Prathyush (01FE18BAR021), Malhar Kulkarni (01FE18BAR022), Prasad Basaragi (01FE18BAR027), Ranjeet Shingade (01FE18BAR031) and Ritika Javalagi (01FE18BAR032) has satisfactorily completed the course INSTITUTIONAL SPONSORED PROJECT (21EARW492).

SACHIN KARADGI

01-JAN-2011

Staff in-charge

Examiner 2! Nume: A. C. Ciriyapur Juli 2022