

THE NATIONAL COLLEGE

(Autonomous)

Jayanagar, Bangalore-560070

(NAAC Accredited A GRADE)

CERTIFICATE

This is to certify that the project work entitled

GESTURE CONTROLLED ROBOT

is a bonafide work done by

Naveen R (17NCJS263)

Bharath Kumar L (17NCJS258)

Lohith Kumar M (17NCJS268)

In partial fulfilment for the award of degree of "Bachelor of Science", from The National College, Jayanagar (Autonomous), affiliated to Bangalore University, during the year 2019-2020. It is certified that all corrections/suggestions indicated in the internal assignment have been incorporated in the report. The project report has been approved as it satisfied the academic requirement in respect of project work prescribed for the Bachelor of Science Degree course.

M. Mahadeva
Prof. MAHADEVA.M, MSc, Mphil

Lecture and Internal Guide,

Department of electronics,

The National College.

Prof. Cheluvappa S
Prof. CHELUVAPPA.S, M.Sc.

H.O.D and Internal Guide,

Department of electronics,

The National College.

Head of The Dept of Electronics

The National College,

(Autonomous)

Jayanagar, Bengaluru - 560 070

Valued-by:

Examination Centre:

Date of Examination:

VALUED	
Signatures of Examiners	
1)	<i>[Signature]</i>
2)	<i>[Signature]</i>
Date	<i>21/11/20</i>



THE NATIONAL COLLEGE

(Autonomous)

Jayanagar, Bangalore-560070
(NAAC Accredited A Grade)

CERTIFICATE

This is to certify that the project work entitled

QUADCOPTER

is a bonafide work done by

GUNASHREE J (16NCJS236)

NARENDRA SWARNAKAR (17NCJS273)

PRIYANKA N (17NCJS265)

In partial fulfillment for the award of degree of "Bachelor of Science", from The National College, Jayanagar (Autonomous), affiliated to Bangalore University, during the year 2016-2017. It is certified that all corrections/suggestions indicated in the internal assignment have been incorporated in the report. The project report has been approved as it satisfies the academic requirement in respect of project work prescribed for the Bachelor of Science Degree course.



Prof. MAHADEVA.M , M.Sc, Mphil
Lecturer and Internal Guide,
Department of Electronics,
The National College.





Prof. CHELUVAPPA.S ,M.Sc.
H.O.D and Internal Guide,
Department of Electronics,
The National College.
Head of The Dept of Electronics
The National College,
(Autonomous)
Jayanagar, Bengaluru - 560 070

Valued-by:

Examination Center:

Date of Examination:

VALUED	
Signatures of Examiners	
1)	
2)	
Date:	21/10/2017



THE NATIONAL COLLEGE

(Autonomous)

Jayanagar, Bangalore-560070

(NAAC Accredited A GRADE)

CERTIFICATE

This is to certify that the project work entitled SPIDER ROBOT is a bonafide work done by

NAVYASHREE C HEGDE (17NCJS269)
USHA N (17NCJS270)

In partial fulfillment for the award of degree of "Bachelor of Science", from The National College, Jayanagar (Autonomous), affiliated to Bangalore University, during the year 2018-2019. It is certified that all corrections/suggestions indicated in the internal assignment have been incorporated in the report. The project report has been approved as it satisfied the academic requirement in respect of project work prescribed for the Bachelor of Science Degree course.

M. Mahadeva S. Cheluvappa

Prof. MAHADEVA. M, MSc, Mphil / Prof. CHELUVAPPA. S, M.Sc.

Lecture and Internal Guide,
Department of Electronics,
The National College.

H.O.D and Internal Guide,
Department of electronics,
The National College.
Head of The Dept of Electronics
The National College,
(Autonomous)

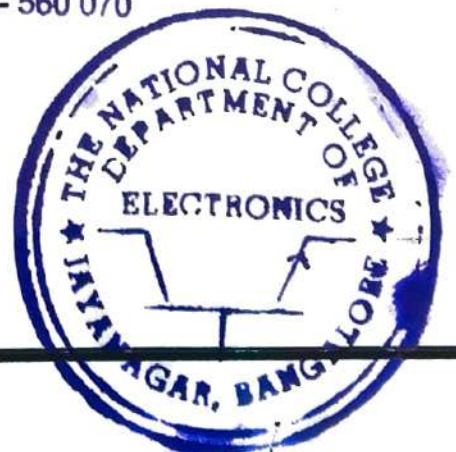
Valued-by:

Jayanagar, Bengaluru - 560 070

Examination Center:

Date of Examination:

VALUED	
Signatures of Examiners	
1)	<u>S. Cheluvappa</u> 21/10
2)	<u>M. Mahadeva</u>
Date	21/10/2019





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THE NATIONAL COLLEGE

[AUTONOMOUS]

JAYANAGAR , BANGALORE - 560070

DEPARTMENT OF ELECTRONICS

CERIFICATE

Certified that the project entitled "STAIR-CASE CLIMBING ROBOT" is carried out by Anil Kumar T S (17NCJS257) and Dhanush K (17NCJS272), as the partial fulfillment of Bachelor of Degree from The National College, Jayanagar, Bangalore for the academic year, 2019-2020. The project has been approved as it satisfies the academic requirements in the respect of the project work prescribed for 6th semester BSc.

M. Mahadeva

PROF .MAHADEVA M, MSc , MPHIL

(ASSOC.PROF.AND INTERNAL GUIDE)
GUIDE)

Cheluvappa S

PROF .CHELUVAPPA S, MSc

(HOD AND INTERNAL
Head of The Dept of Electronics
The National College,
(Autonomous)
Jayanagar, Bengaluru - 560 070

NAME :

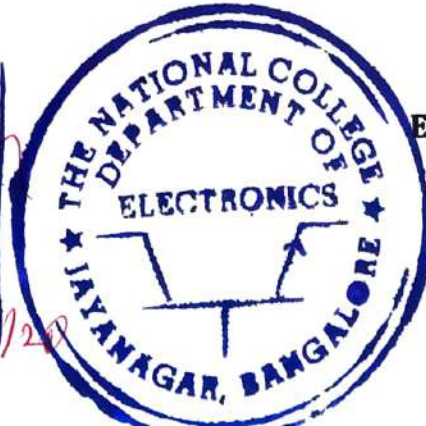
REG. NO

EXAMINATION CENTRE:

DATE OF EXAM: 20-10-2020

VALUED BY :

VALUED	
Signatures of Examiners	
1)	<i>Cheluvappa S</i>
2)	<i>Cheluvappa S</i>
Date	20/10/20



THE NATIONAL COLLEGE

(Autonomous)

Jayanagar, Bangalore-560070

(NAAC Accredited A Grade)

CERTIFICATE

This is to certify that the project work entitled
DENSITY BASED TRAFFIC LIGHT CONTROL SYSTEM

Is a bonified work done by

SHRAVANI B.M(17NCJS232)

LEKHANA R (17NCJS261)

In partial fulfillment for the award of degree of "Bachelor of Science", from The National college, Jayanagar (Autonomous), affiliated to Bangalore University, during the year 2019-2020. It is certified that all corrections/suggestions indicated in the internal assignment have been incorporated in the report. The Project report has been approved as it satisfies the academic requirement in respect of project work prescribed for the Bachelor of Science Degree course.




Prof. MAHADEVAN M, M.Sc. MPhil

Lecturer and Internal Guide,
Department of Electronics,
The National College.

prof. CHELUVAPPA S, M.Sc.

H.O.D and Internal Guide,
Department of Electronics,



The National College.
Head of The Dept of Electronics
The National College,
(Autonomous)
Jayanagar, Bengaluru - 560 070

Valued by: -

Examination Center: -

Date of Examination: -

DEPARTMENT OF ELECTRONICS

VALUED	
Signatures of Examiners	
1)	
2)	
Date	20/10/20
20/10/2020	





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THE NATIONAL COLLEGE
AUTONOMOUS
JAYANAGAR, BANGALORE-560070

DEPARTMENT OF ELECTRONICS

CERTIFICATE

Certified that the project entitled "**WAR FIELD SPY ROBOT USING 8051 MICROCONTROLLER**" is carried out by **PRASHANTH V (17NCJS229), RAJASHEKAR B (17NCJS230), SAMPATH M (17NCJS266)** as the partial fulfillment of Bachelor of Degree from The National College Jayanagar Bangalore for the academic year 2019-2020. The project has been approved as it satisfies the academic requirements in the respect of the project work prescribed for VI Semester BSc.

M. Mahadeva

PROF. MAHADEVA M, MSc, MPHIL
MSc
(ASSOC. PROF AND INTERNAL GUIDE)

S. Cheluvappa

PROF. CHELUVAPPA S,

(HOD AND INTERNAL GUIDE)
Head of The Dept of Electronics
The National College,
(Autonomous)
Jayanagar, Bengaluru - 560 070

VALUED BY:

VALUED	
Signatures of Examiners	
1)	<i>Sampath M</i>
2)	<i>S. Cheluvappa</i>
Date	<i>21/10/20</i>

NAME:

REG. NO.:

EXAMINATION CENTRE:

DATE OF EXAM:





THE NATIONAL COLLEGE

[AUTONOMOUS]

JAYANAGAR, BANGALORE – 560070

DEPARTMENT OF ELECTRONICS

CERTIFICATE

Certified that the project entitled “PICK AND PLACE ROBOT” is carried out by Sharath C.R. (17NCJS231) and Sai Nathin A.R. (17NCJS238), as the partial fulfilment of Bachelor of Degree from The National College, Jayanagar, Bangalore for the academic year, 2019 – 2020. The project has been approved as it satisfies the academic requirements in the respect of the project work prescribed for 6th semester BSc.

M. Mahadeva
PROF. MAHADEVA M, MSc, MPHIL

(ASSOC. PROF. INTERNAL GUIDE)

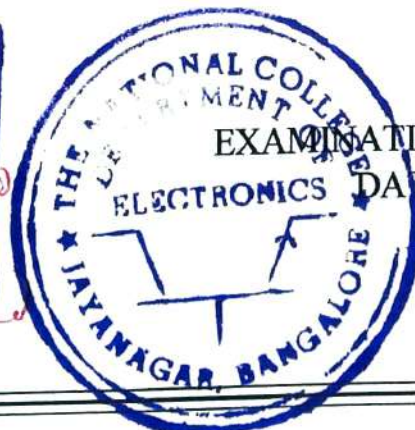
Cheluvappa S
PROF. CHELUVAPPA S, MSc.

(HOD AND INTERNAL GUIDE)
Head of The Dept of Electronics
The National College,
(Autonomous)

Jayanagar, Bengaluru - 560 070

VALUED BY:

VALUED	
Signatures of Examiners	
1) <i>Sarath</i>	21/10/2020
2) <i>Sai Nathin</i>	
Date	21/10/2020



Sharath C.R
NAME: Sai Nathin A.R
REG NO.: 17NCJS231 & 17NCJS238
EXAMINATION CENTRE: NCJ
DATE OF EXAM: 21/10/2020



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THE NATIONAL COLLEGE

Autonomous

Jayanagar, Bangalore-560070

CERTIFICATE

This is to certify the project report titled "QUADCOPTER USING ARDUINO NANO" is a Bonafide record of work done by CHIPPAGIRI VISHNU (17NCJS226), NIKHIL S M (17NCJS227) AND TEJASWI J M (17NCJS234) of THE NATIONAL COLLEGE, Jayanagar, Bangalore, in partial fulfillment of the requirements of VI Semester BSc during the year 2019-2020.

.....*M. Mahadeva*.....

PROF. MAHADEVA M, MSc, MPhil

.....*Cheluvappa S*.....

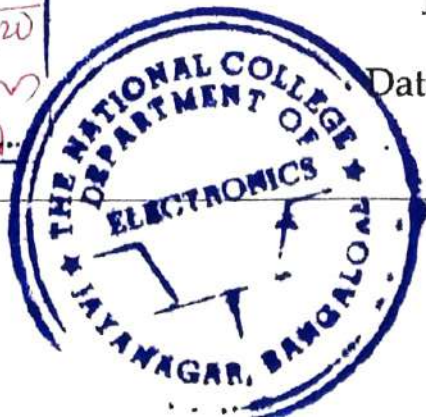
PROF. CHELUVAPPA S, MSc
Head of The Dept of Electronics
The National College,
(Autonomous)
Jayanagar, Bangalore-560 070

Examiners:

VALUED	
1.	Signatures of Examiners
1)	<i>Saujan</i> 21/10/20
2)	<i>Cheluvappa S</i>
Date	21/10/2020

The National College,
Jayanagar.

Date of Examination:





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THE NATIONAL COLLEGE

[AUTONOMOUS]

JAYANAGAR, BANGALORE - 560070

KARNATAKA

DEPARTMENT OF ELECTRONICS

CERTIFICATE

Certified that the project entitled "ACCIDENT DETECTION" is carried out by **Divyashri V (17NCJS259)** and **Shreya B (17NCJS233)**, as the partial fulfillment of Bachelor of Degree from The National College, Jayanagar, Bangalore for the academic year 2019-2020. The project has been approved as it satisfies the academic requirements in the respect of the project prescribed for 6th semester B.Sc.

.....*M. Mahadeva*.....

PROF. MAHADEVA M, MSc, MPHIL
(ASSOC.PROF. AND INTERNAL GUIDE)

.....*S. Cheluvappa*.....

PROF. CHELUVAPPA S, MSc
(HOD AND INTERNAL GUIDE)
Head of The Dept of Electronics
The National College,
(Autonomous)
Jayanagar, Bangalore - 560 070

VALUED BY:

VALUED	
Signatures of Examiners	
1) <i>Sanjay</i>	21/10/20
2) <i>S. Cheluvappa</i>	
Date: <i>21/10/20</i>	

REG. NO:

EXAMINATION CENTRE:

DATE OF EXAM:

