

CERTIFICATE

This is to certify that **Mr. Aaditya Tomar (17MEL001)** student of **M.Sc. (ELECTRONICS)**, has completed the project work and has submitted a report for the same in partial fulfilment of requirement of the course by JAMIA MILLIA ISLAMIA (A CENTRAL UNIVERSITY) for the year 2017-2019 in the topic “**ANTI THEFT VEHICLE DETECTION SYSTEM**”. The student has worked under our guidance as directed. The results contained in this project have not been submitted, in part or in full, to any other University or Institute for the award of any Degree or Diploma.



Dr. Musheer Ahmad
(Head of Department)

Applied science & Humanities
Faculty of Engineering & Technology
Jamia Millia Islamia University
New Delhi



Dr. Ashok Salhan
Supervisor
Former Scientist (G), DRDO

CERTIFICATE

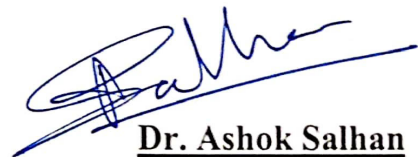
This is to certify that **Mr. Shubham Pandey(17MEL022)** student of **M.Sc. (ELECTRONICS)**, has completed the project work and has submitted a report for the same in partial fulfilment of requirement of the course by JAMIA MILLIA ISLAMIA (A CENTRAL UNIVERSITY) for the year 2017-2019 in the topic "**ANTI THEFT VEHICLE DETECTION SYSTEM**". The student has worked under our guidance as directed. The results contained in this project have not been submitted, in part or in full, to any other University or Institute for the award of any Degree or Diploma.



Dr. Musheer Ahmad

(Head of Department)

Applied science & Humanities
Faculty of Engineering & Technology
Jamia Millia Islamia University
New Delhi



Dr. Ashok Salhan

Supervisor
Former Scientist (G), DRDO

CERTIFICATE

This is to certify that **Mrs. Sneha Rajput (17MEL024)** student of **M.Sc. (ELECTRONICS)**, has completed the project work and has submitted a report for the same in partial fulfilment of requirement of the course by JAMIA MILLIA ISLAMIA (A CENTRAL UNIVERSITY) for the year 2017-2019 in the topic "**ANTI THEFT VEHICLE DETECTION SYSTEM**". The student has worked under our guidance as directed. The results contained in this project have not been submitted, in part or in full, to any other University or Institute for the award of any Degree or Diploma.



Dr. Musheer Ahmad

(Head of Department)

Applied science & Humanities
Faculty of Engineering & Technology
Jamia Millia Islamia University
New Delhi




Dr. Ashok Salhan

Supervisor
Former Scientist (G), DRDO

CERTIFICATE

This is to certify that **Mrs. Shivani Chauhan (17MEL031)** student of **M.Sc. (ELECTRONICS)**, has completed the project work and has submitted a report for the same in partial fulfilment of requirement of the course by JAMIA MILLIA ISLAMIA (A CENTRAL UNIVERSITY) for the year 2017-2019 in the topic “**ANTI THEFT VEHICLE DETECTION SYSTEM**”. The student has worked under our guidance as directed. The results contained in this project have not been submitted, in part or in full, to any other University or Institute for the award of any Degree or Diploma.



Dr. Musheer Ahmad

(Head of Department)

Applied science & Humanities
Faculty of Engineering & Technology
Jamia Millia Islamia University
New Delhi



Dr. Ashok Salhan

Supervisor

Former Scientist (G), DRDO



अन्तर-विश्वविद्यालय त्वरक केन्द्र
INTER-UNIVERSITY ACCELERATOR CENTRE
(Formerly Nuclear Science Centre)
(विश्वविद्यालय अनुदान आयोग का स्वायत्त केन्द्र)
(An Autonomous Centre of UGC)

DATE: 01/07/2019

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Rishav Sharma**, S/O -Mr. Gopal Sharma, a student of **M.Sc, Electronics Science**, Department Of Applied Science, Jamia Millia Islamia, New Delhi has successfully completed 6 Months Internship Programme from Jan 2019 to Jun 2019 at this institute. He worked on the project of "Development of Remote Position Controller Electronics for Stepper Motors based position control of Motorized Linear Motion Feedthroughs". During this period He worked under my guidance and supervision. He has worked sincerely and showed keen interest in doing our project.

We wish him all success for his future career.

(R. N. Dutt)

Linear Accelerator Group

Inter-University Accelerator Centre



अन्तर-विश्वविद्यालय त्वरक केन्द्र
INTER-UNIVERSITY ACCELERATOR CENTRE
(Formerly Nuclear Science Centre)
(विश्वविद्यालय अनुदान आयोग का स्वायत्त केन्द्र)
(An Autonomous Centre of UGC)

DATE: 01/07/2019

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Dheeraj Tiwari**, S/O –Mr. Mohan Chandra Tiwari, a student of **M.Sc, Electronics Science**, Department Of Applied Science, Jamia Millia Islamia, New Delhi has successfully completed 6 Months Internship Programme from Jan 2019 to Jun 2019 at this institute. He worked on the project of “**Development of Remote Position Controller Electronics for Stepper Motors based position control of Motorized Linear Motion Feedthroughs**”. During this period He worked under my guidance and supervision. He has worked sincerely and showed keen interest in doing our project.

We wish him all success for his future career.

(R. N. Dutt)

Linear Accelerator Group

Inter-University Accelerator Centre



29 May 2019

TO WHOM IT MAY CONCERN:

This is to certify that **VIVEK KARNA** s/o Mr. KAMLESH LAL KARNA, successfully completed 5 month long internship from Jan,19 to May,19 at Academy of Embedded Technology, Azadpur, Delhi-110033.

During the internship, he worked on the following projects:

1. TITLE: Control Card for IoT based device which include ATmega 8 microcontroller, Real Time Clock (RTC), GSM Module, Watchdog Timer, External EEPROM and ADC channels.
2. TITLE: Developed a Prepaid Energy Meter prototype based on IoT device format.

Other activities during the internship include:

1. PCB Testing
2. Device Testing
3. Circuit design and Simulation
4. PCB design

During the period of his internship program with us he had been exposed to different process and was found punctual, hardworking and inquisitive. We wish him every success in his life and career.

For Academy of Embedded Technology

Regards,


Divyansh Gupta

(Partner)

CERTIFICATE

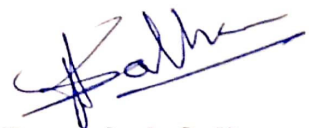
This is to certify that **Mr. Saurav Rawat (17MEL021)** student of **M.Sc. (ELECTRONICS)**, has completed the project work and has submitted a report for the same in partial fulfilment of requirement of the course by JAMIA MILLIA ISLAMIA (A CENTRAL UNIVERSITY) for the year 2017-2019 in the topic “**ANTI THEFT VEHICLE DETECTION SYSTEM**”. The student has worked under our guidance as directed. The results contained in this project have not been submitted, in part or in full, to any other University or Institute for the award of any Degree or Diploma.



Dr. Musheer Ahmad

(Head of Department)

Applied science & Humanities
Faculty of Engineering & Technology
Jamia Millia Islamia University
New Delhi



Dr. Ashok Salhan

Supervisor

Former Scientist (G), DRDO

CANDIDATE'S DECLARATION

I, **SHYAM SUNDER MAURYA** hereby, declare that the work which is being presented in this dissertation entitled “ **AREA DENIAL SYSTEM** ” submitted in partial fulfilment of the requirements for the award of **Degree of M.Sc. (Electronics)**, to the Department of Applied Sciences and Humanities, Faculty of Engineering and Technology, **Jamia Millia Islamia**, New Delhi- 110025, is an authentic record of my work carried out during the project work under the supervision of **DR ASHOK SALHAN (Scientist 'G' and Associate Director DIPAS(Retd.))**

I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission.

I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed. It is further stated that if at any later stage any plagiarism or any material of this dissertation found copied from the other's work/source, I will be solely responsible for that and I will abide by the rules of Intellectual Property Act, Govt. of India.

Date: 27 May, 2019
Place: New Delhi

Shyam Sunder
SHYAM SUNDER MAURYA

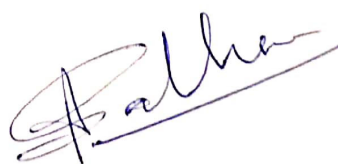
CERTIFICATE

This is to certify that the above statement made by the candidate is correct to the best of my/our knowledge.



Prof. MUSHEER AHMAD

Head of the Department
Department of Applied Science and Humanities
Jamia Millia Islamia



DR ASHOK SALHAN

Scientist 'G' and Associate Director(Retd.)
DIPAS

CANDIDATE'S DECLARATION

I, **SUNITA GUPTA** hereby, declare that the work which is being presented in this dissertation entitled “ **AREA DENIAL SYSTEM** ” submitted in partial fulfilment of the requirements for the award of **Degree of M.Sc. (Electronics)**, to the Department of Applied Sciences and Humanities, Faculty of Engineering and Technology, **Jamia Millia Islamia**, New Delhi- 110025, is an authentic record of my work carried out during the project work under the supervision of **DR ASHOK SALHAN (Scientist 'G' and Associate Director DIPAS(Retd.))**

I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission.

I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed. It is further stated that if at any later stage any plagiarism or any material of this dissertation found copied from the other's work/source, I will be solely responsible for that and I will abide by the rules of Intellectual Property Act, Govt. of India.

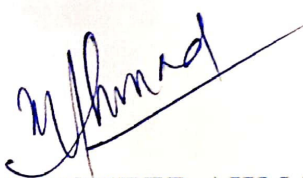
Date: 27 May, 2019


Place: New Delhi


SUNITA GUPTA

CERTIFICATE

This is to certify that the above statement made by the candidate is correct to the best of my/our knowledge.


Prof. MUSHEER AHMAD
Head of the Department
Department of Applied Science and Humanities
Jamia Millia Islamia


DR ASHOK SALHAN
Scientist 'G' and Associate Director(Retd.)
DIPAS

CANDIDATE'S DECLARATION

I, **SURAJ M K**, hereby, declare that the work which is being presented in this dissertation entitled **"SOLAR OPTICAL FILM DENSITOMETER & NOSTRIL SWAR DOMINANCE RECORDER FOR PRANAYAMA "** submitted in partial fulfillment of the requirements for the award of **Degree of M.Sc. (Electronics)**, to the Department of Applied Sciences and Humanities, Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi- 110025, is an authentic record of my own work carried out during the project work under the supervision of **Dr. ASHOK SALHAN (Scientist 'G' and Associate Director DIPAS(Retd.))**

I have presented the work/idea in my own words and where ever others ideas or words have been included; I have adequately cited and referenced the original sources. To the best of my knowledge, the matter embodied in this dissertation has not been submitted for the award of any other degree or diploma in any other Institute/University.

I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed. It is further stated that if at any later stage any plagiarism or any material of this dissertation found copied from the other's work/source, I will be solely responsible for that and I will abide by the rules of Intellectual Property Act, Govt. of India.

Date: 27 May, 2019

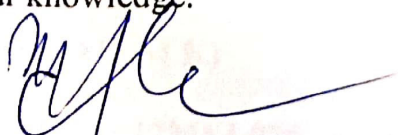
Place: NEW DELHI



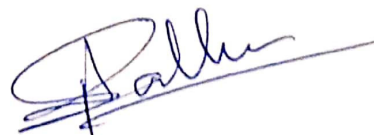
(SURAJ M K)

CERTIFICATE

This is to certify that the above statement made by the candidate is correct to the best of my/our knowledge.



(Prof. Musheer Ahmad)
Head of the Department



(Dr. ASHOK SALHAN)
Supervisor

Candidate's Declaration

I, **TRIJYA RANA**, hereby, declare that the work which is being presented in this dissertation entitled "**WIRELESS PULSE OXIMETER WITH RECORDING**" submitted in partial fulfilment of the requirements for the award of **Degree of M.Sc. (Electronics)**, to the Department of Applied Sciences and Humanities, Faculty of Engineering and Technology, Jamia Milia Islamia, New Delhi- 110025, is an authentic record of my own work carried out during the project work under the supervision of **DR. ASHOK SALHAN**, Former Scientist (G), DRDO and Co-supervisor **PROF. MUSHEER AHMAD**, Head, Department of Applied Sciences and Humanities.

I have presented the work/idea in my own words and where ever other ideas or words have been included; I have adequately cited and referenced the original sources. To the best of my knowledge, the matter embodied in this dissertation has not been submitted for the award of any other degree or diploma in any other Institute/University.

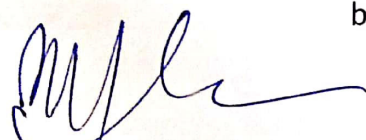
I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed. It is further stated that if at any later stage any plagiarism or any material of this dissertation found copied from the other's work/source, I will be solely responsible for that and I will abide by the rules of Intellectual Property Act, Govt. of India.


Date: 27TH May 2019
Place: New Delhi


Trijya Rana

CERTIFICATE

This is to certify that the above statement made by the candidate is correct to the best of my /our knowledge.


Dr. Musheer Ahmad
Head of the Department


Dr. Ashok Salhan
Former Scientist (Supervisor)

Candidate's Declaration

I, **UROOJ FATIMA**, hereby, declare that the work which is being presented in this dissertation entitled "**WIRELESS PULSE OXIMETER WITH RECORDING**" submitted in partial fulfilment of the requirements for the award of **Degree of M.Sc. (Electronics)**, to the Department of Applied Sciences and Humanities, Faculty of Engineering and Technology, Jamia Milia Islamia, New Delhi- 110025, is an authentic record of my own work carried out during the project work under the supervision of **DR. ASHOK SALHAN**, Former Scientist (G), DRDO and Co-supervisor **PROF. MUSHEER AHMAD**, Head, Department of Applied Sciences and Humanities.

I have presented the work/idea in my own words and where ever other ideas or words have been included; I have adequately cited and referenced the original sources. To the best of my knowledge, the matter embodied in this dissertation has not been submitted for the award of any other degree or diploma in any other Institute/University.

I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed. It is further stated that if at any later stage any plagiarism or any material of this dissertation found copied from the other's work/source, I will be solely responsible for that and I will abide by the rules of Intellectual Property Act, Govt. of India.

Date: 27TH May 2019

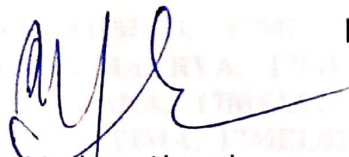
Place: New Delhi

Urooj Fatima
27/05/19
Urooj Fatima

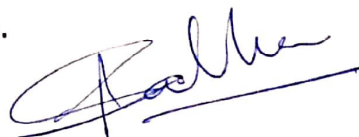
CERTIFICATE

This is to certify that the above statement made by the candidate is correct to the

best of my /our knowledge.



Dr. Musheer Ahmad
Head of the Department



Dr. Ashok Salhan
Former Scientist (Supervisor)

CANDIDATE'S DECLARATION

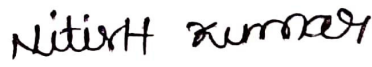
I, **NITISH KUMAR**, hereby, declare that the work which is being presented in this dissertation entitled **"SOLAR OPTICAL FILM DENSITOMETER & NOSTRIL SWAR DOMINANCE RECORDER FOR PRANAYAMA"** submitted in partial fulfillment of the requirements for the award of **Degree of M.Sc. (Electronics)**, to the Department of Applied Sciences and Humanities, Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi- 110025, is an authentic record of my own work carried out during the project work under the supervision of **Dr. ASHOK SALHAN (Scientist 'G' and Associate Director DIPAS(Retd.))**

I have presented the work/idea in my own words and where ever others ideas or words have been included; I have adequately cited and referenced the original sources. To the best of my knowledge, the matter embodied in this dissertation has not been submitted for the award of any other degree or diploma in any other Institute/University.

I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed. It is further stated that if at any later stage any plagiarism or any material of this dissertation found copied from the other's work/source, I will be solely responsible for that and I will abide by the rules of Intellectual Property Act, Govt. of India.

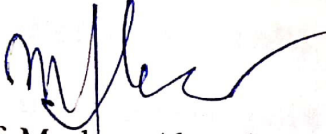
Date: 27 May, 2019


Place: NEW DELHI


(NITISH KUMAR)

CERTIFICATE

This is to certify that the above statement made by the candidate is correct to the best of my/our knowledge.


(Prof. Musheer Ahmad)
Head of the Department


(Dr. ASHOK SALHAN)
Supervisor

CANDIDATE'S DECLARATION

I, **NUZHAT SABA** hereby, declare that the work which is being presented in this dissertation entitled “ **AREA DENIAL SYSTEM** ” submitted in partial fulfilment of the requirements for the award of **Degree of M.Sc. (Electronics)**, to the Department of Applied Sciences and Humanities, Faculty of Engineering and Technology, **Jamia Millia Islamia**, New Delhi- 110025, is an authentic record of my work carried out during the project work under the supervision of **DR ASHOK SALHAN (Scientist 'G' and Associate Director DIPAS(Retd.))**

I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission.

I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed. It is further stated that if at any later stage any plagiarism or any material of this dissertation found copied from the other's work/source, I will be solely responsible for that and I will abide by the rules of Intellectual Property Act, Govt. of India.

Date: 27 May, 2019

Place: New Delhi


(NUZHAT SABA)


CERTIFICATE

This is to certify that the above statement made by the candidate is correct to the best of my/our knowledge.



Prof. MUSHEER AHMAD

Head of the Department
Department of Applied Science and Humanities
Jamia Millia Islamia



DR ASHOK SALHAN

Scientist 'G' and Associate Director(Retd.)
DIPAS

Candidate's Declaration

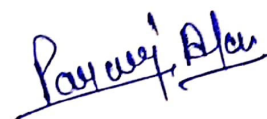
I, **PARWEJ ALAM**, hereby, declare that the work which is being presented in this dissertation entitled "**SPEED DETECTION**" submitted in partial fulfillment of the requirements for the award of **Degree of M.Sc. (Electronics)**, to the Department of Applied Sciences and Humanities, Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi- 110025, is an authentic record of my own work carried out during the project work under the supervision of **DR. ASHOK SALHAN**, Former Scientist (G), DRDO and Co-supervisor **PROF. MUSHEER AHMAD**, Head, Department of Applied Sciences and Humanities. I have presented the work/idea in my own words and where ever other ideas or words have been included; I have adequately cited and referenced the original sources. To the best of my knowledge, the matter embodied in this dissertation has not been submitted for the award of any other degree or diploma in any other Institute/University.

I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed. It is further stated that if at any later stage any plagiarism or any material of this dissertation found copied from the other's work/source, I will be solely responsible for that and I will abide by the rules of Intellectual Property Act, Govt. of India.

Place: New Delhi

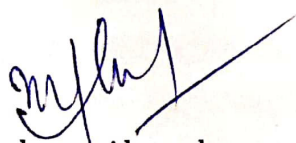
Date: 27/05/19

PARWEJ ALAM



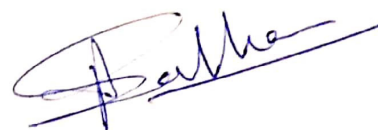
CERTIFICATE

This is to certify that the above statement made by the candidate is correct to the best of My/our knowledge.



Dr. Musheer Ahmad

Head of the Department



Dr. Ashok Salhan

Former Scientist(Supervisor)

CANDIDATE'S DECLARATION

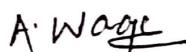
I, **AHMAD WAQUAR**, hereby, declare that the work which is being presented in this dissertation entitled **"SOLAR OPTICAL FILM DENSITOMETER & NOSTRIL SWAR DOMINANCE RECORDER FOR PRANAYAMA "** submitted in partial fulfillment of the requirements for the award of **Degree of M.Sc. (Electronics)**, to the Department of Applied Sciences and Humanities, Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi- 110025, is an authentic record of my own work carried out during the project work under the supervision of **Dr. ASHOK SALHAN (Scientist 'G' and Associate Director DIPAS(Retd.))**

I have presented the work/idea in my own words and where ever others ideas or words have been included; I have adequately cited and referenced the original sources. To the best of my knowledge, the matter embodied in this dissertation has not been submitted for the award of any other degree or diploma in any other Institute/University.

I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed. It is further stated that if at any later stage any plagiarism or any material of this dissertation found copied from the other's work/source, I will be solely responsible for that and I will abide by the rules of Intellectual Property Act, Govt. of India.

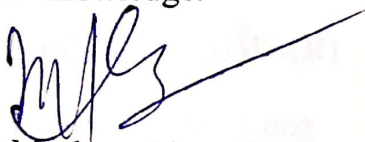
Date: 27 May, 2019


Place: NEW DELHI


(AHMAD WAQUAR)

CERTIFICATE

This is to certify that the above statement made by the candidate is correct to the best of my/our knowledge.


(Prof. Musheer Ahmad)
Head of the Department


(Dr. ASHOK SALHAN)
Supervisor

CANDIDATE'S DECLARATION

I, **MOHD. AMIR** hereby, declare that the work which is being presented in this dissertation entitled "**CAPACITIVE TOUCH SENSING ON PLANTS**" submitted in partial fulfilment of the requirements for the award of **Degree of M.Sc. (Electronics)**, to the Department of Applied Sciences and Humanities, Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi- 110025, is an authentic record of my work carried out during the project work under the supervision of **DR ASHOK SALHAN**.

I declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission.

I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed. It is further stated that if at any later stage any plagiarism or any material of this dissertation found copied from the other's work/source, I will be solely responsible for that and I will abide by the rules of Intellectual Property Act, Govt. of India.

Date: 27-05-2019

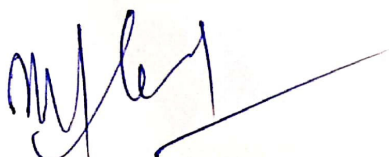
Place: DELHI



(MOHD AMIR)

CERTIFICATE

This is to certify that the above statement made by the candidate is correct to the best of my/our knowledge.



(Prof. MUSHEER AHMAD)
Head of the Department



(DR. ASHOK SALHAN)

CANDIDATE'S DECLARATION

I, **MOHAMMAD RAYYAN KHAN** hereby, declare that the work which is being presented in this dissertation entitled "**CAPACITIVE TOUCH SENSING ON PLANTS**" submitted in partial fulfilment of the requirements for the award of **Degree of M.Sc. (Electronics)**, to the Department of Applied Sciences and Humanities, Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi- 110025, is an authentic record of my work carried out during the project work under the supervision of **DR ASHOK SALHAN**.

I declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission.

I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed. It is further stated that if at any later stage any plagiarism or any material of this dissertation found copied from the other's work/source, I will be solely responsible for that and I will abide by the rules of Intellectual Property Act, Govt. of India.

Date: 27/05/19

Place: DELHI



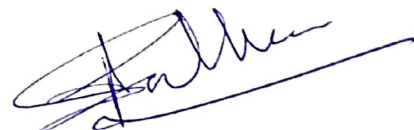
(MOHAMMAD RAYYAN KHAN)

CERTIFICATE

This is to certify that the above statement made by the candidate is correct to the best of my/our knowledge.



(Prof. MUSHEER AHMAD)
Head of the Department



(DR. ASHOK SALHAN)


CANDIDATE'S DECLARATION

I, **MD YUSUF** hereby, declare that the work which is being presented in this dissertation entitled “ **AREA DENIAL SYSTEM** ” submitted in partial fulfilment of the requirements for the award of **Degree of M.Sc. (Electronics)**, to the Department of Applied Sciences and Humanities, Faculty of Engineering and Technology, **Jamia Millia Islamia**, New Delhi- 110025, is an authentic record of my work carried out during the project work under the supervision of **DR ASHOK SALHAN (Scientist 'G' and Associate Director DIPAS(Retd.))**

I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission.

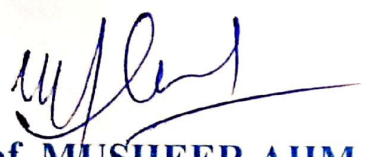
I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed. It is further stated that if at any later stage any plagiarism or any material of this dissertation found copied from the other's work/source, I will be solely responsible for that and I will abide by the rules of Intellectual Property Act, Govt. of India.

Date: 27 May, 2019
Place: New Delhi


(MD YUSUF)

CERTIFICATE

This is to certify that the above statement made by the candidate is correct to the best of my/our knowledge.


Prof. MUSHEER AHMAD

Head of the Department
Department of Applied Science and Humanities
Jamia Millia Islamia



DR ASHOK SALHAN

Scientist 'G' and Associate Director(Retd.)
DIPAS

CANDIDATES DECLARATION


I, BELAL AKBAR hereby, declare that the work which is being presented in the dissertation entitled "*Design & Implementation of Electronic Stethoscope*" Submitted in partial fulfilment of the requirement for the award of **Degree of M.Sc (ELECTRONICS)** to the Department of Applied Science & Humanities, Faculty of Engineering & Technology, Jamia Millia Islamia, New Delhi – 110025, is an authentic record of my own work carried out during the project work under the Under supervision of **Dr. Ashok Salhan (Scientist 'G' & Associate Director DIPAS(Retd.))**

I have presented the work/idea in my own words and where ever others idea or words have been included, I have adequately cited and reference the original sources. To the best of my knowledge, the matter amoided in this dissertation has not been submitted for the award of any other degree or diploma in any other Institute/University.

I also declare that I have adhere to all principles of academic honesty and integrity and not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the institute and can also evoke penal action from the sources which has thus jot been properly cited or from whom proper permission has not been taken when needed. It is further stated that if at any later stage any plagiarism or any material of this dissertation found copied from the other's work/Source. I will be solely responsible for that and I will abide by the rules of Intellectual Property Act, Govt. of India.

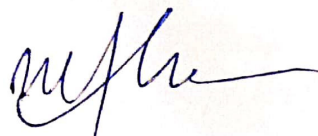
Date: 27/05/19


Place: New Delhi


BELAL AKBAR
17MEL007

CERTIFICATE

This is to certify that the above statement made by the candidate is correct to the best of my/our knowledge


(Dr. Musheer Ahmad)
Head Of Department


(Dr. Ashok Salhan)
supervisor

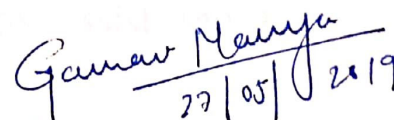
Candidate's Declaration

I, **GAURAV MAURYA**, hereby, declare that the work which is being presented in this dissertation entitled "**WIRELESS PULSE OXIMETER WITH RECORDING**" submitted in partial fulfilment of the requirements for the award of **Degree of M.Sc. (Electronics)**, to the Department of Applied Sciences and Humanities, Faculty of Engineering and Technology, Jamia Milia Islamia, New Delhi- 110025, is an authentic record of my own work carried out during the project work under the supervision of **DR. ASHOK SALHAN**, Former Scientist (G), DRDO and Co-supervisor **PROF. MUSHEER AHMAD**, Head, Department of Applied Sciences and Humanities.

I have presented the work/idea in my own words and where ever other ideas or words have been included; I have adequately cited and referenced the original sources. To the best of my knowledge, the matter embodied in this dissertation has not been submitted for the award of any other degree or diploma in any other Institute/University.

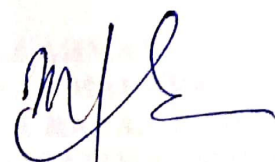
I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed. It is further stated that if at any later stage any plagiarism or any material of this dissertation found copied from the other's work/source, I will be solely responsible for that and I will abide by the rules of Intellectual Property Act, Govt. of India.


Date: 27TH May 2019
Place: New Delhi


27/05/2019
Gaurav Maurya

CERTIFICATE

This is to certify that the above statement made by the candidate is correct to the
best of my /our knowledge.


Dr. Musheer Ahmad
Head of the Department


Dr. Ashok Salhan
Former Scientist (Supervisor)

CANDIDATES DECLARATION

I, EHTESHAM ALAM hereby, declare that the work which is being presented in the dissertation entitled "*Design & Implementation of Electronic Stethoscope*" Submitted in partial fulfilment of the requirement for the award of **Degree of M.Sc (ELECTRONICS)** to the Department of Applied Science & Humanities, Faculty of Engineering & Technology, Jamia Millia Islamia, New Delhi – 110025, is an authentic record of my own work carried out during the project work under the Under supervision of **Dr. Ashok Salhan (Scientist 'G' & Associate Director DIPAS(Retd.))**

I have presented the work/idea in my own words and where ever others idea or words have been included, I have adequately cited and reference the original sources. To the best of my knowledge, the matter amoided in this dissertation has not been submitted for the award of any other degree or diploma in any other Institute/University.

I also declare that I have adhere to all principles of academic honesty and integrity and not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the institute and can also evoke penal action from the sources which has thus jot been properly cited or from whom proper permission has not been taken when needed. It is further stated that if at any later stage any plagiarism or any material of this dissertation found copied from the other's work/Source. I will be solely responsible for that and I will abide by the rules of Intellectual Property Act, Govt. of India.


Date: 27-05-2019

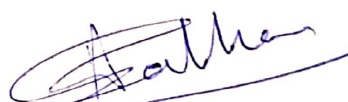
Place: NEW DELHI
27-05-2019

Ehtesham Alam
EHTESHAM ALAM
17MEL004

CERTIFICATE

This is to certify that the above statement made by the candidate is correct to the best of my/our knowledge


(Dr. Musheer Ahmad)
Head Of Department


(Dr. Ashok Salhan)
supervisor

CANDIDATES DECLARATION

I, MOHD. SARVAR hereby, declare that the work which is being presented in the dissertation entitled "*Design & Implementation of Electronic Stethoscope*" Submitted in partial fulfilment of the requirement for the award of **Degree of M.Sc (ELECTRONICS)** to the Department of Applied Science & Humanities, Faculty of Engineering & Technology, Jamia Millia Islamia, New Delhi – 110025, is an authentic record of my own work carried out during the project work under the Under supervision of **Dr. Ashok Salhan (Scientist 'G' & Associate Director DIPAS(Retd.))**

I have presented the work/idea in my own words and where ever others idea or words have been included, I have adequately cited and reference the original sources. To the best of my knowledge, the matter amoided in this dissertation has not been submitted for the award of any other degree or diploma in any other Institute/University.

I also declare that I have adhere to all principles of academic honesty and integrity and not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the institute and can also evoke penal action from the sources which has thus jot been properly cited or from whom proper permission has not been taken when needed. It is further stated that if at any later stage any plagiarism or any material of this dissertation found copied from the other's work/Source. I will be solely responsible for that and I will abide by the rules of Intellectual Property Act, Govt. of India.

Date: 27/05/2019



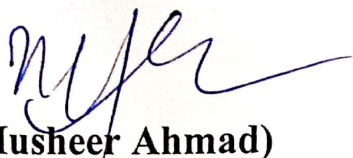
MOHD. SARVAR

Place: New Delhi

17MEL013

CERTIFICATE

This is to certify that the above statement made by the candidate is correct to the best of my/our knowledge



(Dr. Musheer Ahmad)

Head Of Department



(Dr. Ashok Salhan)

supervisor


Candidate's Declaration

I, **FARAZ AHMAD**, hereby, declare that the work which is being presented in this dissertation entitled "**WIRELESS PULSE OXIMETER WITH RECORDING**" submitted in partial fulfilment of the requirements for the award of **Degree of M.Sc. (Electronics)**, to the Department of Applied Sciences and Humanities, Faculty of Engineering and Technology, Jamia Milia Islamia, New Delhi- 110025, is an authentic record of my own work carried out during the project work under the supervision of **DR. ASHOK SALHAN**, Former Scientist (G), DRDO and Co-supervisor **PROF. MUSHEER AHMAD**, Head, Department of Applied Sciences and Humanities.

I have presented the work/idea in my own words and where ever other ideas or words have been included; I have adequately cited and referenced the original sources. To the best of my knowledge, the matter embodied in this dissertation has not been submitted for the award of any other degree or diploma in any other Institute/University.

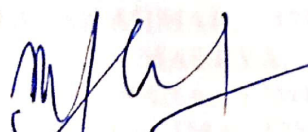
I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed. It is further stated that if at any later stage any plagiarism or any material of this dissertation found copied from the other's work/source, I will be solely responsible for that and I will abide by the rules of Intellectual Property Act, Govt. of India.

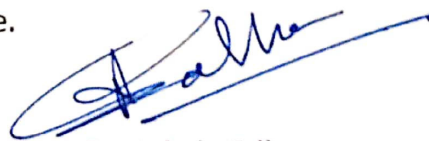
Date: 27TH May 2019
Place: New Delhi


Faraz Ahmad

CERTIFICATE

This is to certify that the above statement made by the candidate is correct to the best of my /our knowledge.


Dr. Musheer Ahmad
Head of the Department


Dr. Ashok Salhan
Former Scientist (Supervisor)



Defence Institute of Physiology and Allied Sciences

रक्षा शारीरक्रिया एवं संबंधित विज्ञान संस्थान

(An ISO 9001 : 2000 Certified Institute)

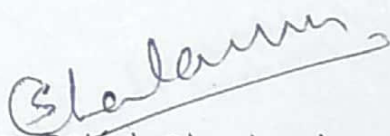
Govt. of India, Ministry of Defence, Defence Research & Development Organization
भारत सरकार रक्षा मंत्रालय रक्षा अनुसंधान एवं विकास संगठन
Lucknow Road, Timarpur, Delhi - 110 054
लखनऊ रोड, तिमारपुर दिल्ली - 110 054

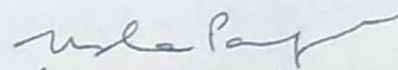
CERTIFICATE

This is to certify that

Mohd. Itqan Ullah Student of M. Sc. Electronics, Jamia Milia
Islamia, New Delhi has undertaken Project Work titled "Intuitive
Visualization of Thermal Images for Bio-Medical Applications"
from 01st Jan, 2019 to 30th June, 2019 in this establishment.

The work carried out by the candidate is property of DIPAS and
should not be published without prior approval of Director, DIPAS.


(Mr. Satish Chouhan)
Scientist 'D'
Bio-Medical Instrumentation


(Dr. Usha Panjwani)
Scientist 'F'
HOD-HRD



Defence Institute of Physiology and Allied Sciences

रक्षा शरीरक्रिया एवं संबंधित विज्ञान संस्थान

(An ISO 9001 : 2000 Certified Institute)

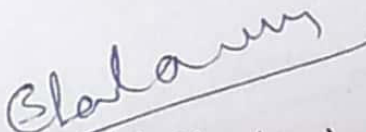
Govt. of India, Ministry of Defence, Defence Research & Development Organization
भारत सरकार रक्षा मंत्रालय रक्षा अनुसंधान एवं विकास संगठन
Lucknow Road, Timarpur, Delhi - 110 054
लखनऊ रोड, तिमारपुर दिल्ली - 110 054

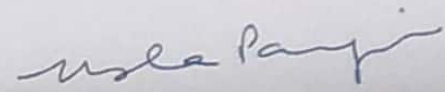
CERTIFICATE

This is to certify that

Ms. Nancy Gupta Student of M. Sc. Electronics, Jamia Milia
Islamia, New Delhi has undertaken Project Work titled "Electrical
and Thermal Analysis of Space Heating Device (Bukhari)" from
01st Jan, 2019 to 30th June, 2019 in this establishment.

The work carried out by the candidate is property of DIPAS and
should not be published without prior approval of Director, DIPAS.


(Mr. Satish Chouhan)
Scientist 'D'
Bio-Medical Instrumentation


(Dr. Usha Panjwani)
Scientist 'F'
HOD-HRD



Defence Institute of Physiology and Allied Sciences

रक्षा शारीरक्रिया एवं संबंधित विज्ञान संस्थान

(An ISO 9001 : 2000 Certified Institute)

Govt. of India, Ministry of Defence, Defence Research & Development Organization
भारत सरकार रक्षा मंत्रालय रक्षा अनुसंधान एवं विकास संगठन
Lucknow Road, Timarpur, Delhi - 110 054
लखनऊ रोड, तिमारपुर दिल्ली - 110 054

CERTIFICATE

This is to certify that

Mohammad Faísal Student of M. Sc. Electronics, Jamia Milia
Islamia, New Delhi has undertaken Project Work titled "Electrical
and Thermal Analysis of Space Heating Device (Bukhari)" from
01st Jan, 2019 to 30th June, 2019 in this establishment.

The work carried out by the candidate is property of DIPAS and
should not be published without prior approval of Director, DIPAS.

(Mr. Satish Chouhan)

Scientist 'D'

Bio-Medical Instrumentation

(Dr. Usha Panjwani)

Scientist 'F'

HOD-HRD

Office : 91-11-23883111

FAX No : 91-11-23914790 E-mail : hrd@dipas.drdo.in

DIPAS..... In pursuit of excellence in military Physiology



Defence Institute of Physiology and Allied Sciences

रक्षा शारीरक्रिया एवं संबंधित विज्ञान संस्थान

(An ISO 9001 : 2000 Certified Institute)

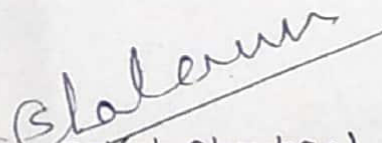
Govt. of India, Ministry of Defence, Defence Research & Development Organization
भारत सरकार रक्षा मंत्रालय रक्षा अनुसंधान एवं विकास संगठन
Lucknow Road, Timarpur, Delhi - 110 054
लखनऊ रोड, तिमारपुर दिल्ली - 110 054

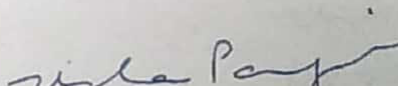
CERTIFICATE

This is to certify that

Md. Faiz Akram Student of M. Sc. Electronics, Jamia Milia
Islamia, New Delhi has undertaken Project Work titled "Electrical
and Thermal Analysis of Space Heating Device (Bukhari)" from
01st Jan, 2019 to 30th June, 2019 in this establishment.

The work carried out by the candidate is property of DIPAS and
should not be published without prior approval of Director, DIPAS.


(Mr. Satish Chouhan)
Scientist 'D'
Bio-Medical Instrumentation


(Dr. Usha Panjwani)
Scientist 'F'
HOD-HRD