Department of Electrical and Computer Engineering
North South University

Senior Design Project

Multipurpose Flying Drone

Sakif Md Fahim **ID# 1430337042**

Imran-Al-Munyeem **ID# 1310513642**

Prottay Paul **ID# 1420479042**

Md. Amir Hossain **ID#1311088642**

Faculty Advisor:

Dr. Mohammed Monirujjaman Khan

AssociateProfessor

ECE Department

Spring, 2019

LETTER OF TRANSMITAL

May, 2019

To

Dr. K.M.A. Salam

Chairman,

Department of Electrical and Computer Engineering

North South University, Dhaka

Subject: **Submission of Capstone Project on "Multipurpose flying drone."**

Dear Sir,

With due respect, we would like to submit our **Capstone Project Report** on **"Multipurpose flying drone"** as a part of our BSc program. The report deals with Multi Level Based drone technology on medical and fire. This project was very much valuable to us as it helped us gain experience from practical field and apply in real life. We tried to the maximum competence to meet all the dimensions required from this report.

We will be highly obliged if you kindly receive this report and provide your valuable judgment. It would be our immense pleasure if you find this report useful and informative to have an apparent perspective on the issue.

Sincerely Yours,

.....
Sakif Md Fahim
ECE Department
North South University, Bangladesh

.....
Imran-Al-Munyeem
ECE Department
North South University, Bangladesh

.....
Prottay Paul
ECE Department
North South University, Bangladesh

.....
Md. Amir Hossain
ECE Department
North South University, Bangladesh

APPROVAL

Sakif Md Fahim (ID # 1430337042), Imran Al Munyeem (ID #1311088642), Prottay Paul (ID #1420479042) and Md. Amir Hossain (ID # 1311088642) from Electrical and Computer Engineering Department of North South University, have worked on the Senior Design Project titled "Multipurpose flying drone" under the supervision of Dr. Mohammed Monirujjaman Khan partial fulfillment of the requirement for the degree of Bachelors of Science in Engineering and has been accepted as satisfactory.

Supervisor's Signature

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Dr. Mohammed Monirujjaman Khan

Associate Professor

Department of Electrical Engineering & Computer Science

North South University

Dhaka, Bangladesh.

Chairman's Signature

…….

Dr. K. M. A. Salam

Associate Professor & chairman

Department of Electrical Engineering & Computer Science

North South University

Dhaka, Bangladesh.

DECLARATION

This is to certify that this Project is our original work. No part of this work has been submitted elsewhere partially or fully for the award of any other degree or diploma. Any material reproduced in this project has been properly acknowledged.

Students' names & Signatures

1. Sakif Md Fahim

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2. Imran-Al-Munyeem

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3. Prottay Paul

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4. Md. Amir Hossain

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ACKNOWLEDGEMENT

By kindness of the Almighty we have successfully completed our senior design project entitled "Multipurpose flying drone"

Our deep gratitude goes first to my faculty advisor Dr. Mohammed Monirujjaman Khan, who expertly guided us in our senior design project throughout the whole EEE499A and EEE499B. His guidance helped us in all type of research, writings and completing the project.

Our sincere thanks also goes to North South University, Dhaka, Bangladesh for giving us such a platform where we can have an industrial level experience as a part of our academics.

Last but not the least, we would like to thank our family as their inspiration and guidance kept us focused and motivated.

Abstract

Technology in unmannedaerialvehicle (UAV) cansolvemany emergency problems in civilian and militarysectors by doingproperimplementation. However, thisis not commerciallyused for large scale till now in many countries because of manysecurityfactors. A properimplement of drone canutilize the problem of emergency medicalgoodsdelivery in inaccessible roads, quick surveillance for military and govtlawenforcementagencies and much more. The drone has the potentiality to have the sameresult on usual transportation infrastructure. This paperis about a new drone model. With the suggested design of a drone multipurposeworkincluding emergency delivery and surveillance network willfacilitate more time efficient and much more economical to potentiallysavelives.