
Declaration Of Authorship

We hereby confirm that the research and simulations are conducted by **Sidratul Muntaha**, **Ramisa Maliat** and **Urbana Musharrat Haider** under the guidance of **Prof. Dr. Muhammad Mahbub Alam** and **S. M. Sabit Bananee**, Lecturer from the Department of Computer Science and Engineering (CSE) at the Islamic University of Technology (IUT), Gazipur, Bangladesh. We affirm that this thesis and its contents have not been submitted elsewhere for any academic degree or diploma. Proper attribution has been provided for information obtained from published and unpublished works of others, as evidenced by the citations and reference list included in the text.

Authors:

Sidratul Muntaha

Sidratul Muntaha, Student ID- 180041118

Ramisa Maliat

Ramisa Maliat, Student ID- 180041131

Urbana Musharrat Haider

Urbana Musharrat Haider, Student ID- 180041110

Supervisor:



Dr. Muhammad Mahbub Alam

Professor

Department of Computer Science and Engineering

Islamic University of Technology (IUT)

Co-supervisor:



S. M. Sabit Bananee

Lecturer

Department of Computer Science and Engineering

Islamic University of Technology (IUT)