**SPL1 Project Proposal Form, 2022**

**Institute of Information Technology (IIT)**

**University of Dhaka**

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| **Student’s Name:** | **Md. Sabbir Hosen** | | |
| **Student’s Roll:** | **BSSE 1333** | **Phone:** | **1729567821** |
| **An Image Processing Tool**  **Project Description:**  This project will take a grayscale image as input and enable a user to perform basic image enhancement operations.   1. **Basic image enhancement** :   This part will perform: **Brightening** , **Sharpening,** **Smoothing**, **Negation,** **Histogram Equalisation.**   1. **Basic segmentation**   Basic image segmentation algorithm such as, **Line detection**, **Thresholding,** **Edge detection**, **Point detection** will be implemented. Further features will be added according to the recommendation of supervisor.  This project will implement different algorithms for each function. These algorithms will be tested and compared to determine their performance on the input images. | | | |
| **Languages or Tools to be used: C, C++, Visual Studio Code, Git and Github** | | | |
| **Supervisor’s Name: Dr. Emon Kumar Dey**  **Signature of the supervisor:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Date: 04 - 01 - 2023** | | | |