

People start dreaming from birth. I am no exception. In the same way, 'I started dreaming of making different things from my young age. I was always curious and would open the motor from my own toys and make a fan with it. Thus, I understood I want to be an engineer. My curiosity always drove me to fix various electrical materials with soldering irons and I kept thinking myself as an engineer. In 2015, that desired day came in my life. I got the opportunity to get admission in Electrical and Electronic Engineering. Then began the desired journey of 4 years of that engineering life.

Every human life has its ups and downs. New problems are faced, new experiences are also witnessed. My case was indifferent as well, the opposite did not happen. I have accepted many experiences in these 4 years. I got a chance to learn a lot. Learned new things. The most important of these experiences was working with research. As a result of this research work, I have been able to make myself so confident that the experience, both inside and outside of my research, has prepared me for higher education.

The first publication of my research came in 2018 when I conducted a study in my third year of graduation, and a teacher in my department helped with that research. He was so confident in me that the research work with me would be very good. His self-confidence and his help led me to this research work. The subject of my first research was "**Presumption Method for Detecting and Analyzing Human Mental Behavior by Employing EEG Signal**". Through this work we analyze the human brain's behavior with signals. As a result of this research, we have encountered different behaviors with different people. This also makes it possible to form an idea of how a person presents himself. There are five signals in the human brain to do this research and they are - happiness, sadness, anger, surprise, and fear. It is through these five signals that it has become possible to attribute the behavior of several people. They have also been able to explain how and in what way they value themselves in real life. As a result of working with the signal project of this human brain, I have learned some things that no human being is happy with himself. There is an imperfection in one way or another. My research was published in a well-known conference IEEE. It is through this that I succeed in engaging myself in my research activities.

And here I did not stop. I continue to improve my skills. I started reading various research publications. Let's start learning new things. Then I work on another new project. And the name of that paper is to "**Harnessing the Ocean's Wave Power for Bangladesh's Dynamic Coastal Areas**". This research work is on a renewable energy. This is to generate electricity by utilizing the waves of the coastal region of Bangladesh. And it was also published at a prestigious conference. In this way I continue my research work. Seeing my research passion and work success, the professor in my department called me and allowed me to work with him on the thesis. And I also took the opportunity with respect. He then asked me to work on the subject of image processing.

The last year of my undergraduate career began with research work on my thesis. I entitled my thesis with the name of "**An Integrated Image Processing on Underwater Image Enhancement Based on Fusion Technique via Color Correction and Illumination Adjustment**" and under the supervision of that professor. While working on this topic I have had to learn some new coding languages, and have managed to gain a lot of skills on a software called MATLAB. The main purpose of this theme was to create a clear image of the underwater image by blurring, eliminating noise, adjusting the illumination, fixing the colors and applying fusion techniques. As a result of this research, it is possible to get a beautiful and clear image

by correcting many blurred images or lighting inconsistencies. And this research work was also published at a well-known conference IEEE.

This is how I continue my research work. After my graduation, I later learned from various media that it was a little difficult to get a scholarship for higher education if I presented myself to the scholarship committee members only with the papers published in the conference. For this I add a new section to **“An Integrated Image Processing on Underwater Image Enhancement Based on Fusion Technique via Color Correction and Illumination Adjustment”** and create a new paper so that the output image is clearer than before. I entitled that paper the super resolution based underwater image enhancement by illumination adjustment and color correction with fusion technique. In this paper everything is the same as before but some new things are added and that is CNN and Super Resolution. Super-resolution could be a method of imaging that progresses the resolution of an imaging framework, additionally, it could be a prepare of combining a sequence of low-resolution pictures to create the next determination picture or arrangement. In arrange to demonstrate the execution of this strategy, it was being utilized on the stacked dataset(images), compared with diverse strategies there had been prepared the taking after stack dataset(images) utilizing code. After applying the bi-cubic interpolation procedure, the VDSR (Very-Deep Super Resolution) method has been applied to the image. VDSR refers to a convolutional neural network engineering intended to perform single image super-resolution. The VDSR learns the retailing among low-and high-goals images. This retailing is conceivable on the grounds that low-resolutions and high-resolution images have comparative image content and vary principally in high-recurrence subtleties. This paper is published in Progress in **“Advances in Science, Technology and Engineering Systems Journal”** which is a reputed journal. The Journal Committee selected me as their reviewer based on my work effort and skills which is very honorable for me. For this reason, my departmental teachers sincerely appreciate me.

In my graduation life, I not only worked with research, but also participated in many kinds of competitive work such as programming competitions, robotics competitions, poster presentations, etc. I have also participated in forming various clubs and organizing various programs in a university. We have also volunteered to provide relief to flood victims or to distribute winter clothing to those affected by the cold.

In the midst of all this, I chose to pursue postgraduate studies because I could prepare myself to make a major contribution to engineering by working under the guidance of experienced researchers. My interest in research, this interest can go further by obtaining a postgraduate degree from a reputed university. My ultimate goal is to land in the academy and make a significant impact to make the world a little better.

Staying in the academy has its own implications and I am fully aware of it. I feel like I have a level of dedication, resilience and a solution to its needs. I am adequately prepared for both technical qualifications and the right mindset for postgraduate level research work. My only shortcoming, which is direction, can certainly be met.

Therefore, I look forward to joining your department as a postgraduate student.