

The background features abstract, overlapping geometric shapes in various shades of blue, ranging from light sky blue to deep navy blue. The shapes are primarily triangles and polygons, creating a dynamic, layered effect. The text is centered in the white space between these shapes.

# **Raihana Shams Islam Antara Bangladesh**

# Myself

I am Raihana Shams Islam Antara  
You Can Call me “Antara”

Nationality : Bangladesh



# My Hometown

I am from Sirajganj, Bangladesh  
Which is the gateway to the  
North Bengal.

It is a part of the Rajshahi Division

Mainly It is my hometown.



I was born in Satkhira, is a district situated in the south-western part of Bangladesh in the Khulna Division.

Now, I am living in Dhaka with my family, The capital city of Bangladesh and it is my permanent home now.

# Family

I have the best family in the world. My parents have been happily married for almost 33 years. I have 4 members in my family. Father, mother, my only one elder sister & me the youngest one of the family.

# Education

I completed my under graduation study on this April, 2015

<b>Undergraduate(B.Sc)</b>	<b>BRAC University, Bangladesh</b>
<b>Department</b>	<b>Electrical &amp; Electronics Engineering</b>
<b>Major Minor</b>	<b>Electronic Engineering Computer Engineering</b>
<b>Expertise</b>	<b>Embedded Systems, Analog Devices, Communication Systems</b>
<b>Extra Curriculum activities</b>	<b>Ex-President, Robotics Club of BRAC University [ROBU]  Ex-Director, Writing &amp; Publication section, Robotics Club of BRAC University [ROBU]</b>

# Undergraduate Thesis

- ▶ My Undergraduate thesis topic was “UAV Based Remote Sensing for developing countries”

## Purpose:

- ▶ To create a platform for low-cost, quick response Remote sensing system
- ▶ To make an alternative platform of satellite
- ▶ To make an automated and ready made data provider for further analysis.



# Image Processing

Our main challenge was to create a software which could successfully acquire and process images. we created a LabView interface to run image processing. We could successfully create three demo applications.

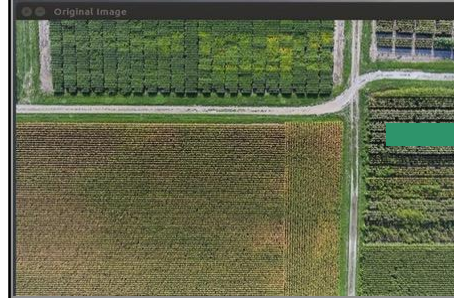


2.a) Test Image (Source: <http://www.national-geographic.pl/foto/fotografia/rzeka-king-river-162386t>)

2.b) Processed Image (LabView)

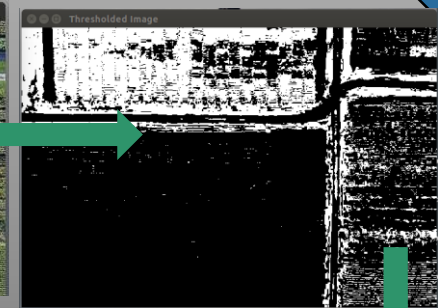
## 2. River Line Detection

## 3) Super Resolution Image



1.a) Original Image

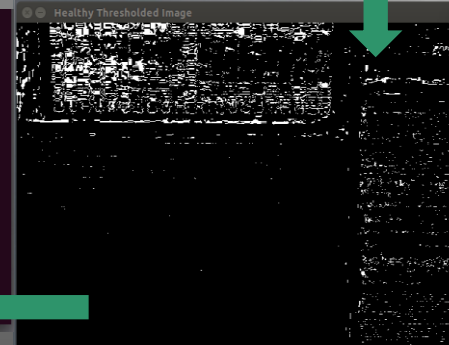
(Source: [http://h.fastcompany.net/multisite\\_files/fastcompany/imagecache/inline-large/inline/2013/09/3016935-inline-](http://h.fastcompany.net/multisite_files/fastcompany/imagecache/inline-large/inline/2013/09/3016935-inline-)



1.b) Separation of crop from other object (processed in labView)

Total Pixel 273920  
Green Pixels 59528  
Healthy Pixels 10949  
Green percentage 21.7319%  
Healthy green 18.393%

Your farm needs expert opinion.



1.c) Portion of Image Found Healthy (processed in labView)

d) Numerical Estimation of Crop Health

## 1) Crop Health Estimation



# Interests

- I love Dancing. I have been dancing at least 15 years.
- Music is another interests of mine. I was a complete singer for 19 years. I travelled around to different cities in Bangladesh and competed with the another singer. I have many medals for achieving the champion position. I was a singer at Khulna Betar, Bangladesh
- Zeal to explore new things. It keeps me busy and it is very fun. It is a big interest and activity for myself and it will be.

# Dreams

Climbing into my Dreams

# Goals For my Present

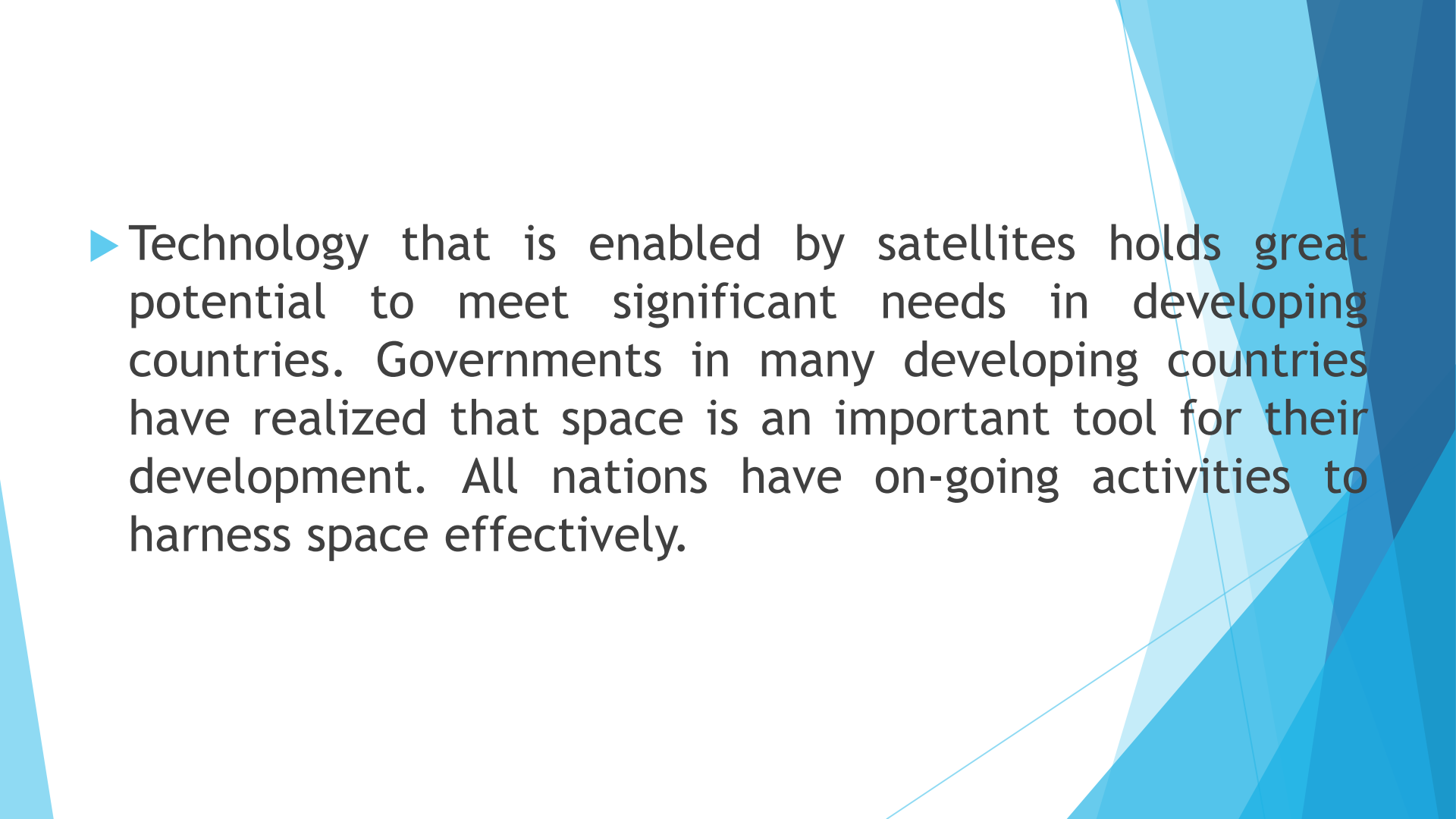
Preparing myself for my future plan

“ what is my future plan!!!”

# Future Plan

Research On satellite

Why?????

- 
- ▶ Technology that is enabled by satellites holds great potential to meet significant needs in developing countries. Governments in many developing countries have realized that space is an important tool for their development. All nations have on-going activities to harness space effectively.

- ▶ **Bangladesh has no satellite of its own**
- ▶ GIS researchers are heavily dependent upon buying or acquiring permission to use image capture data from other satellites from other countries. This is so costly for a developing country like us.

# M.Sc plan

- ▶ I, along with my two friends got chance in Kyushu Institute of Technology, Japan for pursuing our M.Sc program. The session will be started from this October.
- ▶ Our plan is to make the 1<sup>st</sup> small satellite for our country within two years & launching
- ▶ My these two friends were attended 2<sup>nd</sup> Unisec Global Meeting and they were the student representative. During that time they announced that we will launch our satellite within 2021.
- ▶ Now we decided that we will complete this whole project within 2017 with co-operation of Kyutech.

# Satellite

## ▶ Mission :

- Taking photograph of homeland
- Satellite can monitor on the wide sea area we have own from the international court. Indeed Bangladesh will be benefited.

## My Topic :

- ▶ Communication system of multi-national CUBE-SATELLITE constellation



# Professional Goals

I want to work with Space Technology. And I really want to develop interest into people in my country for researching on this technology. That's why I am joining here to enhance my knowledge and spread it in my country.

# Centurions

We are Centurions, a team of Engineers who believes we can create a better future through right application of science. We Graduated in Electrical and Electronics Engineering from BRAC University. Starting this October, we will be pursuing our Masters degree in Kyushu Institute of Technology, Japan. Our scope of study will be Nano Satellite Development and its application in developing countries like Bangladesh. The EXACT topic is still in discussion. Stay connected with us on our Facebook page for more updates.

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<https://www.facebook.com/centurions.3>



Champion of the "South Asia's Biggest Innovation Festival"  
in the category "International hover competition"

# Achievement

- ▶ **Champion:** International Hover Exhibition - International Engineering Innovation Summit Bangladesh 2015 - 2015
- ▶ **Champion:** Young Engineers Summit - 2015

# The End

**Thank You for learning all about me**