

# ETCell Weekend 2014

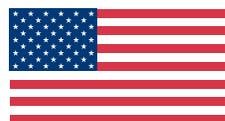
19-20 June 2014

Rajshahi University of Engineering & Technology

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IEEE RUET Student Branch

## Preface

Established in 16th September 2009, IEEE RUET Student Branch took great pride in celebrating its 5th anniversary this year. It has a good number of energetic and enthusiastic executives and volunteers, who run the day to day operations as well as organize the larger events. IEEE RUET SB, a place for students to gain the necessary soft skills required to successfully enter the work force, such as leadership and project management along with their course curriculum. We're a group of students of Rajshahi University of Engineering and Technology (undergrad and graduate) who want to have fun and meet new people, to learn about research and innovation in technology, to find ourselves and our passions, to help our community, and to get inspired to change the world under the counseling and supervision of our honorable teachers.

From the very beginning of the branch we took many initiatives. We organized national level program along with local and international seminars. Both technical and non technical were like Electronic Project competition, seminars on various technical stuffs along with leadership, workshop on AVR Microcontroller, workshop on Higher Study Abroad, workshop on entrepreneurship and so on. IEEE RUET Student Branch is the initiator of IEEE Bangladesh Section Student Congress by organizing it for the first time in 2012. In the year 2012, Mr. K. M. Nasim, former chairman of this branch, was awarded most vibrant student member in IEEE Bangladesh Section. IEEE RUET Student Branch was declared most promising student branch in IEEE Bangladesh Section in the year 2013.

Branch executives and volunteers are a motivated, well trained group of individuals who contribute to the success of the student branch. In the future, IEEE RUET SB hopes to continue its growth by continually attracting more members and providing more services to the students.



## Message from Vice-Chancellor

**Prof. Dr. Mohd. Rafiqul Alam Beg**

Vice-Chancellor

Rajshahi University of Engineering & Technology

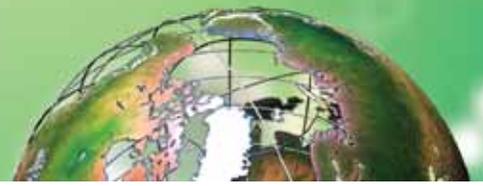
It is my overwhelming pleasure to know that IEEE RUET Student Branch is going to organize "ETCell Weekend 2014".

"ETCell Weekend 2014" will provide an excellent platform of exchanging thoughts and ideas on wide varieties of topics on products or solutions which are technology related. This Entrepreneurship Camp will bring the undergraduate students from different universities and experts in this field in a single platform to exchange their views, ideas which will enhance their technical knowledge. This will also encourage the students to motivate themselves. It is expected that this approach will help our students to enrich their knowledge about their own field.

I would like to express my thanks to all participants and organizers of IEEE RUET Student Branch and hope the grand success of the event.

A handwritten signature in black ink, appearing to be 'Rafiqul Alam Beg'.

**Prof. Dr. Mohd. Rafiqul Alam Beg**



## Message from Counselor

**Prof. Dr. Muhammad Abdul Goffar Khan**  
Counselor, IEEE RUET Student Branch

Bismillahir Rahmanir Rahim,

In the name of Allah, the most Gracious, the most Merciful.

It gives me immense pleasure to congratulate the IEEE RUET Student Branch for organizing "ETCell Weekend 2014" at RUET Campus.

This type of program provides opportunities to bridge the gap between the classroom lessons and real life situations for the students. Participants from all over the country is expected to join the event which will allow them to interact each other, exchange their views and propagate ones dream among others towards better achievements thereby building up leadership in the field of engineering and applied technology which I believe will accelerate the vision of Reaching the goal of DIGITAL BANGLADESH.

We have formed "IEEE RUET Student Branch", which is a part of a prestigious international organization, IEEE USA. It organized a series of seminars, short courses and training program on Electronics and microcontroller applications, "Meet the leaders in Engineering & Technology" program etc. in the recent years. All such co-curricular activities help the students achieving better mental health and sharpening their capabilities. I take this opportunity to invite all the students of RUET to take membership of those groups, clubs and branches and be a proud partner towards the effort of building bright future of the nation.

"ETCell Weekend 2014" contains several events covering almost all directions of the knowledge acquired in classroom and their real life projects by the students. I express my heartfelt appreciation to every member of the organizers for their sincere efforts for this program.

I wish complete success of the "ETCell Weekend 2014".  
May the Almighty be our help in all of our good deeds.

**Prof. Dr. Muhammad Abdul Goffar Khan**



## Message from Editor

### **Dr. Md. Faruk Hossain**

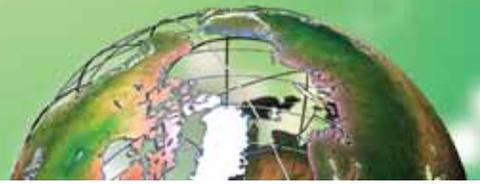
Assistant Professor

Department of Electrical & Electronic Engineering  
Rajshahi University of Engineering & Technology

I am pleased to inform you at that IEEE RUET Student Branch is going to organize "ETCell Weekend 2014". "ETCell Weekend 2014" will be the platform for undergraduate students from all technical universities about their sharing views & ideas on "Idea contest on Entrepreneurship". We feel proud to organize such a substantive event to gather technical students to exchange their thoughts and colourful ideas .The experts from different organizations will express their experience about the latest technology related products and solutions. All the students will get opportunity to be acquainted with the ideas & experiences from the participants. In this souvenir, technical writing of our teachers and information about members of IEEE RUET Student Branch are also included. A great debt of gratitude should go to the sponsors and contributors for their magnanimous support and special thanks for those who worked really hard for making this souvenir. I hope that this event will be a successful program and all of you also enjoy this program. Finally, I would like to thank all the members of IEEE and all subcommittees for their foresight and immense support.

A handwritten signature in black ink, appearing to read 'Faruk Hossain', written over a horizontal line.

**Dr. Md. Faruk Hossain**



## Message from Sub-Editor

### **Md. Shakhawath Hossain**

3rd year student ,Dept of EEE,RUET  
Member,IEEE RUET Student Branch

I feel very proud being a part of IEEE RUET Student Branch which is going to organize ETCell Weekend 2014, a great opportunity for undergraduate students for sharing their views and ideas on Entrepreneurship. Working together as a team to make this program successful will be a memorable event of my life . This souvenir is designed as a reminder of this event. In this souvenir, we try to overview the remarks of excellent job done by our IEEE RUET Student Branch. Technical writing and information about entrepreneurship are also included here. A great debt of gratitude goes to Md. Aliullah Sujan, Md. Abdul Al Azmain, Faria Nawer, Sadia Binte Sohid & Saikat Baroi who worked really hard to make this souvenir. Finally, I would like to thank all the members of IEEE RUET Student Branch and subcommittees of this event for their excellent support.

**Md. Shakhawath Hossain**



## Message from Chair

**Md. Aliullah Sujan**

Chairman, IEEE RUET Student Branch

On behalf of the IEEE RUET Student Branch and the ETCell Weekend 2014 Organizing Committee, I'd like to welcome you all to ETCell Weekend 2014, to be hosted by IEEE RUET Student Branch in Rajshahi University of Engineering & Technology(RUET).

We, The IEEE RUET Student Branch members, are excited to present you a workshop that we have been preparing for the past few months. We believe that each student has the potential to take their ideas in whatever contest and make them a reality. To use the entrepreneur in you, we are offering this program for the students who are interested in learning about the process of innovation and entrepreneurship.

ETCell Weekend 2014 would not be possible without the members who enthusiastically supported and participated in the workshop at various stages from the very beginning. I thank all the volunteers of IEEE RUET Student Branch for their hard works and special thank to The American Center, U.S. Embassy Dhaka for their support.



**Md. Aliullah Sujan**



## Message from The American Center U.S. Embassy-Dhaka

**Calvin Hays**  
Cultural Affairs Officer  
The American Center  
U.S. Embassy-Dhaka

The American Center of the U. S. Embassy is proud to support the IEEE RUET Student Branch for organizing "ETCell Weekend 2014" at Rajshahi University of Engineering and Technology (RUET).

This event will provide opportunities for students to bridge the gap between classroom lessons and real life situations. Students of engineering and applied technology from various universities of Bangladesh will gather to exchange their innovative ideas and views and also receive mentoring sessions. Events like this foster connection between aspiring tech innovators and mentors and also provide the impetus to the Bangladesh's next generation of entrepreneurs and thought leaders .

We wish IEEE RUET Student Branch a success.

**Calvin Hays**

IEEE RUET Student Branch Photo Album



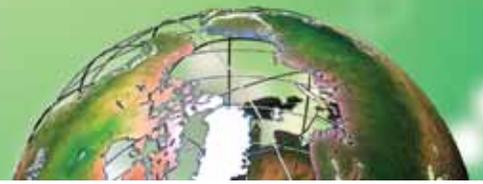
Receiving Most Promising Student Branch Award 2013



Mr. K. M. Nasim, receiving most vibrant student member award



Celebrating 125 years of IEEE Student Branch



IEEE RUET Student Branch Photo Album



Workshop on Microcontroller & Embedded System 2009



Workshop on Microcontroller & Embedded System 2009



Short course on electronic project design & fabrication 2010

IEEE RUET Student Branch Photo Album



Short course on electronic project design & fabrication 2010



Workshop on Broadband Communication 2010



Workshop on AVR Microcontroller 2011



IEEE RUET Student Branch Photo Album



Annual Dinner 2011 & farewell 06 series



Annual Dinner 2011 & farewell 06 series



Annual Dinner 2011 & farewell 06 series

IEEE RUET Student Branch Photo Album



1st IEEE Bangladesh Section Student-GOLD Congress 2012



1st IEEE Bangladesh Section Student-GOLD Congress 2012



Seminar & IEEE Activity Presentation



IEEE RUET Student Branch Photo Album



IEEE R10 Student-GOLD-WIE Congress 2013



ETCell Camp Summer 2013



Charge Handover Ceremony & Farewell 08 series

IEEE RUET Student Branch Photo Album



Technical Tour 2014



NCPNT 2014



IEEE Annual Dinner at BUET 2014



## IEEE RUET Student Branch Photo Album



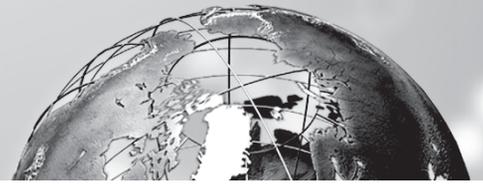
Workshop on Higher Study Abroad 2014



Workshop on Higher Study Abroad 2014



Charge Handover Ceremony



## Messages from EXCOM members



IEEE is the leading organization for networking among engineering professionals. In the year 2009 we realized the need for a common platform for the all the students of RUET where they can work together. With this goal IEEE RUET Student Branch was formed in the same year which was possible due to sincere effort by students & teachers. I like to specially thank A. B. M. Nasiruzzaman sir and Md. Delowar Hossain sir for their active support & guideline during and after formation of the branch. Since the beginning IEEE RUET SB has been an active and vibrant community. The fact that it is a common platform for all the levels and departments brings a great opportunity from which more advantage should be taken. In the end IEEE RUET SB is a group formed in pursuit of providing students a place to develop team work & leadership skills and take RUET towards becoming a better place to study.

Regards

A S M Asadujjaman

Chair: 2009-2010

IEEE RUET Student Branch

Email: ua741c@yahoo.com



Actually due to forming IEEE RUET SB in that time we could arrange various types of workshop. So it was really interesting and we enjoyed very much. To organize the branch firstly the executive members have to take necessary steps to make awareness about IEEE into other student who are not involved. The workshop on various topics like micro-controller, C++, Data communication, higher study may be arranged not only for university level student but also for school/college students so that the IEE RUET SB can participate in social work to serve the nation. Basically such ETCell program will be helpful to more fasten our branch. By this way I hope our IEEE branch will play a vital role in every sector in future.

Thanks & Regard!!!

Md. Abdur Rakib

EEE'05

Treasurer: 2009-2010

IEEE RUET Student Branch

Email: rakib.ete@gmail.com



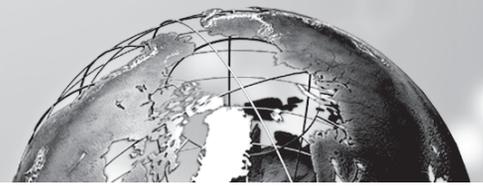
First of all let me begin with the issue entrepreneurship. Every year tons of engineer's are graduating from government and non-government universities. Engineer's start to seek for job after the graduation. Accordingly, there start a massive competition in the job sector. Job crisis in Bangladesh in not an uncommon issue. So to prevail over this issue, the students should be encouraged to be an entrepreneur in their upcoming carrier life. I thank the organizers, IEEE RUET Student Branch to come up with this resourceful workshop. This will definitely motivate our students mind to be an entrepreneur. Best wishes for the Entrepreneurship and Technology Cell going to be held in 19th and 20th June.

Regards  
Tanvir Hussain  
EEE'06  
Vice-Chair: 2009-2010  
Chair: 2010-2011  
Email: bappi.ruet.eee@gmail.com



While the world benefits from what's new, IEEE has focused on what's next. As you may know IEEE RUET SB was founded in 2009. Within such a short period of time IEEE RUET SB has done a tremendous job! I wish to extend a warm welcome to fellow members of the branch! I realize that you are fully dedicated to the organizing technological events that are helpful for the future of our engineers! I believe ETCell WEEKEND 2014 will aim at manifesting the latent entrepreneurial spirit of the young students. I wish the participants a very fruitful and productive Workshop & Seminar. In closing, I wish to express my gratitude to all the members and follower of IEEE RUET SB.  
Thank you.

Regards  
Md. Rayhan Chowdhury  
EEE'06  
Secretary: 2009-2010  
Secretary: 2010-2011  
IEEE RUET Student Branch  
Email:



I want to mention first how important it is for the engineer's to be a part of IEEE. This IEEE platform has made a convenient path for the engineer's all over the world to share their innovative ideas. So in my view all engineer's should take up a place in IEEE to cope up with the outer technological innovations. Consequently we felt the need of IEEE Branch in RUET. I am very pleased to know the immense success of IEEE RUET Student Branch. Entrepreneurship and Technology Cell Weekend 2014 is going to be held in 19-20th June this year. I thank our organizers to take this efficient step as because entrepreneurship has become a climax issue for the development of our country. I hope the students will be able to come out from this workshop with their entrepreneurial determination. Best wishes.

Regards

Abdullah Al Bashit (Dinar)

EEE'06

Student Co-ordinator: 2009-2010

Student Co-ordinator: 2010-2011

E-mail: [eeebashit@gmail.com](mailto:eeebashit@gmail.com)



IEEE is the world's largest professional association for the advancement of technology. We have started our journey in IEEE RUET Student Branch in 2009. Now it is leading successfully so far. In our time fewer students were interested to be a member of IEEE. It is pleasure to know that now the students have become much concerned to become a part of IEEE. This is an impressive feature of IEEE RUET Student Branch. IEEE RUET Student Branch is organizing technological events successfully these days. ETCell Weekend 2014 will be an innovative path for the students to come up with their new ideas. I wish ETCell Weekend 2014 will be successful enough. I suggest our current members of IEEE RUET SB to organize more national or international seminars to cope up with the current technology. Wish u good luck.

Regards

Md. Mahbub Hasan

EEE'06

Vice Chair: 2010-2011, Chair: 2011-2012

IEEE RUET Student Branch,

Email: [masumm17@yahoo.com](mailto:masumm17@yahoo.com)



I am very pleased to know that for the 2nd time in a row IEEE RUET Student Branch is going to organize Entrepreneurship and Technology Cell (ETCell) Weekend 2014 on 19-20 June 2014 at RUET. It is indeed a great pleasure to write a few words for this occasion. IEEE RUET Student Branch has a tradition to begin new chapters of events. During my tenure as the treasurer, vice chair and chair respectively in three consecutive years we tried our best to organize several events including technical and non technical both parts which set a standard. I am happy that the new members are trying to maintain the constant slope of the high rising success graph of the branch. This event will provide the opportunity of networking with some successful investors of our country which can be a great opportunity for young entrepreneurs. I am sure that the program will prove itself worthy to the participants from RUET and other universities as well. My heartiest congratulations are for the organizers and members of IEEE RUET Student branch. Thanks to all the sponsors and investors for their continuous support.

Best Regards

K. M. Nasim

EEE'08

Chair: 2012-2013, Vice-Chair: 2011-2012, Treasurer: 2010-11  
IEEE RUET Student Branch

Email: rusho.eee.08@gmail.com



IEEE is a platform to explore ones potentials and it has always challenged me to push myself to get the best out of me. For this I thank our mentors and all the members of IEEE RUET SB for their continuous support. There is a common question from many members that why they have joined IEEE. Well the answer to that is you have joined IEEE because you are a smart person and if you are using this membership to develop yourself and planning to continue your IEEE membership in future then you are intelligent too. The key to be a good IEEE member is to be helpful and well behaved while being both formal and friendly. And if you are an executive member of IEEE; observe your surroundings and mind your steps. Always remember that professionalism is not the job we do; it is how we do the job.

Md. Sharafat Ali

EEE'08

Graduate Student Member: 2014-Present

Student Member: 2010-2013,

Secretary: 2011-2012, Vice-chair: 2012-2013

Email: sharafat.ali@ieee.org, amst.bd@gmail.com



IEEE RUET Student Branch is one of most promising student branch with a group of vibrant members. From the beginning this branch has proved it's potentiality by organizing different types of national & international technical seminars, workshops and so on. Last year a workshop on Entrepreneurship was successfully organized by our branch. This year, for the 2nd time in a row, we are going to organize ETCell Weekend 2014. The main target of this event is to spread entrepreneurial knowledge among the students and to link up with renowned entrepreneurs & investors of Bangladesh. I feel very proud of being with this branch since last 4 years.

Md. Aliullah Sujan  
4th year student, Dept. of EEE, RUET  
Chair: 2013-present  
Secretary: 2012-2013  
Treasurer: 2011-2012  
IEEE RUET Student Branch  
Email: aliullah.sujan@ieee.org



"Most Promising Student Branch" awarded IEEE RUET Student branch is one of the most effective and self-reliant student branch in Bangladesh under IEEE Bangladesh Section in Region 10. In accordance with the following years, IEEE RUET SB is organizing entrepreneur based seminar and idea contest, named "ETCell Weekend 2014" on 19-20 June, 2014. I would express my extreme thanks and gratitude to The American Center, U.S. Embassy, Dhaka for their support in this event. I hope and believe one day there will be an entrepreneurship evolution in Bangladesh and IEEE RUET SB is promising to be a part on that evolution.

Finally my warm thanks to all my teachers, seniors, my Chair and Secretary and my loving juniors for their awesome volunteer support till the declaration of the event.

Mohd. Ebadur Rahman  
EEE-09  
Vice- Chair: 2013-present.  
Treasurer: 2012-2013.  
IEEE RUET Student Branch  
Email: ebad.eee@ieee.org



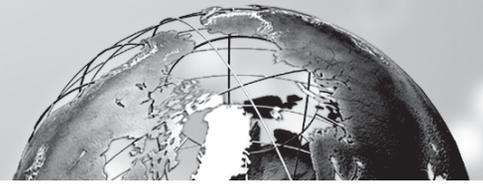
IEEE is the most leading organization in these days for the engineers. All the engineers are capable of sharing their invented ideas in the same platform. IEEE RUET Student Branch has started to make this platform in the year 2009. This is the second time ETCell Weekend 2014 is going to be held. On the basis of response on ETCell Weekend 2014, we again got the interest to organize this event. We have organized many more events successfully and wishing to organize many other events for the students to get much more acquainted with the technology. Entrepreneurship is very highlighted topic for the engineers of Bangladesh. So we have taken a few steps for this new comer engineers to choose to be an entrepreneur. ETCell Weekend 2014 is an outcome of this.

Regards,  
Tushar Sarkar  
Student Co-ordinator: 2012-2013  
Secretary: 2013-2014  
IEEE RUET Student Branch.  
Email: tushar.sarkar@ieee.org



We, IEEE RUET Student Branch introduced ETCellCamp Summer last year which was one of the functional workshops organised by us. This year we come up with ETCell Weekend 2014. Our aim is to introduce entrepreneurship among the students who are interested in self employment. We are expecting that the participants will be able to develop their skill and knowledge about blending entrepreneurship and technology and find the entrepreneur in them.

Regards,  
Faria Nower  
EEE'10  
Treasurer:2013-Present  
IEEE RUET Student Branch  
Email: farianawer2011@gmail.com



We, IEEE RUET Student Branch, would like to welcome you all to Entrepreneurship and Technology Cell weekend 2014. In the previous year we organized ETCell Camp Summer 2013 which was quite successful. We expect the same this time too that we will be able to explore the innovative ideas of participants and make them interested in entrepreneurship through this event.

Regards,  
Fahmida Ahmed Antara  
Dept-EEE'10  
Student Co coordinator : 2013-Present  
IEEE RUET Student Branch  
Email:Fahmida.a.antara@ieee.org



## **A WAY TO THE INFINITY**

**K. M. Nasim**

Former Chair, IEEE RUET Student Branch.

The IEEE RUET Student Branch was founded in the academic year 2009-2010. Since then, the Branch has been one of the most active branches established under IEEE Bangladesh Section. IEEE RUET SB in turn does occupy a significant situate among many other branches in Region 10. The strategy of IEEE RUET Student Branch is to handle a series of activities and facilitate services for its members allowing them to keep up with the new technologies emerging everywhere. The cause of establishing the branch was to motivate students to get ahead of their boundaries, stop restricting themselves within university and allow them to carry themselves to a national and international level.

I became the member of the branch at the beginning of 2010 just after a few months of its formation. From the year of 2009-2010 the branch has been really active as it was assisted by some energetic members.

The first major achievement of IEEE RUET SB was winning the 1st ever IEEE Ethics Competition with award money of 400 \$ in Bangladesh Section in 2010 and fortunately I was one of the three of that winning team. It was really a great news for us. In the following year I attended IEEE Region 10 student-GOLD-WIE congress in Auckland, New Zealand as one of the five delegates from Bangladesh and got the chance to represent our newly established student branch there.

We always believe to deliver the required up-to-date technical and nontechnical knowledge to engineering students and fresh graduates. From the year 2009 to 2011 we organized several workshops and seminars to make student aware of current technological advancement. Besides, we continued to enrich the number of members.

2012 was the busiest year for the student branch. We organized international seminar for the first time in this year. Besides there were several national seminars, workshops and microcontroller based electronic project contest. This year we introduced 1st IEEE Bangladesh Section Student/GOLD Congress. We set a standard for the rest student branches of our section. This year I was promoted to the branch chair after successful completion of my treasurer and vice chair post in two consecutive years. And the happiest moment was seeing myself receiving the most vibrant student volunteer award of IEEE Bangladesh Section in 2012.

2013 was also a great year for us. We were awarded the Most Promising Student Branch award'13 of IEEE Bangladesh Section. We introduced ETCell for the first time in Bangladesh. And there were some workshops with hundreds participants. I along with three more members attended IEEE Region 10 congress in India.

I can still feel those days in my heart. I can remember, we organized many program successfully when we were only 10 to 15 members. Thanks to my mates without whom we could not reach to this level. Special thanks to our honorable teachers for their continuous support. Now the branch is not a baby anymore. It is increasing and will be! Hope the energetic faces will continue the image what we have acquired. Expectations are unlimited just like the way itself. Just keep believing you.

## Entrepreneurship : Personal story

**Prof. Dr. Muhammad Abdul Goffar Khan**

Being inspired from ETCell Summer Camp held at RUET last year, I have started my own enterprise few months back. I am not going to tell you the name or position of my enterprise here, because people may take this as advertisement of my firm. Rather I will share few of my experiences which I gathered by this time. Regarding the sharing of experience, I tell you another story. A boy decided to go America for higher study. He found another boy who is already there. He requested him for some advice. He described some of his good and bad stories, at the conclusion he told, "Experience should be earned, not shared". So those who are listening (reading) my personal story, do not trust me, rather start your own business and earn experience of your own.

The vision of my enterprise is many folded, truly speaking to solve all problems related to all branches of engineering, means whether it is Electrical, Civil or Mechanical. I have started training people different engineering courses, divided in few short courses. I have planned some beginner's course, some advance courses and finally some expert courses. I thought people will start from the basic, then advance forward and finally become expert. But very soon I discovered that people are very clever and smart. They do not like basic courses, as they thought they already know the basic, the almighty kindly has created them with the basic, at the time they born on this earth! So, I was compelled to start with the advance course. People were happy.

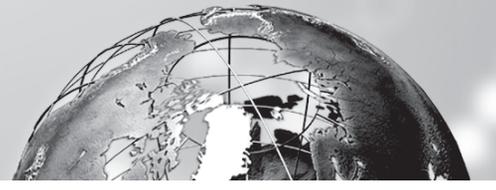
I observed that people are very lazy; they forget to switch OFF their light, even if it is daytime. I designed a 'Fix and Forget' type emergency lamp which will glow only at night, and only when if there is no electricity. I used a photocell to sense the light of the environment and an electronic circuit to process it such that my lamp is automatically switched OFF if there is light already present around it. I thought it will be very helpful for people, because it will give you light as and when necessary and you do not need to switch it OFF, by spending your precious time and energy.

But once again, I found people are very intelligent. They started to use it as a general purpose lamp, even in daytime, suppose within the room having insufficient light. They discovered many faults of my lamp, (i) It does not glow fully in daytime, (ii) It starts lighting if my hand or part of my body comes close to it ( actually the photocell is covered), and so on. They found solution of their problem also; they used Black tape or paper to hide the eye of the photocell. Some of them are more advanced, they rapped it with a piece of cloth or towel ! Finally I changed my design, removed the photocell. People are happy.

I appointed a young technician for my farm. He used to do all the technical works but forget to clean the work place at the end of the day. So I asked him to look for a floor boy who will keep the room clean, bring water, make tea, serve the guests etc. Now I found the technician very energetic. He proposed me that he is ready to do all the tasks of the floor boy if I pay him half of the salary which I decided to pay to the floor boy. I agreed. Few days later demand of my product was suddenly increased. I needed another person to complete the job order in time. Once again my technician came forward. He proposed me that he will do work after the scheduled office time, even on the weekly holydays. I told him that in that case he will get half remuneration for the overtime period. He agreed. We both are happy.

So gentlemen, come forward and start your own enterprise. Be All Happy!!!!

\*Writer is a teacher in EEE, RUET for long 30 years. He is the author of few text books, more than 50 technical papers, have participated more than 20 conferences, was the organizer of several national and international conferences, workshops, short courses etc. He designed few electronic items also, ready for commercial production. Recently he opened his technical farm.



## গৌরবময় দিনগুলো

IEEE RUET Student Branch

মোঃ রায়হান চৌধুরী

(০৬১০৬৪) তওই কৌশল বিভাগ, রুয়েট

রুয়েটে শুরু দিকে আমাদের অনেকের মনে একটা প্রশ্ন জাগত। রুয়েটে তেমন কোন সেমিনার, ওয়ার্কশপ কিংবা সিম্পোজিয়াম হতে দেখিনা যেমনটা অন্যান্য ইঞ্জিনিয়ারিং ভার্টিসিটিতে হতে দেখা যায়। এমন কোন স্টুডেন্ট এসোসিয়েশন নেই যারা এই সব নিয়ে কাজ করবে। পড়াশুনার পাশাপাশি প্রযুক্তি নিয়ে কাজ করা, চিন্তা ভাবনা শেয়ার করার মত কোন প্ল্যাটফর্ম নেই এখানে।

২০০৯ সালের শুরুর দিকে তওই কৌশল বিভাগের নাসিরুজ্জামান স্যার একদিন ক্লাসে কথা প্রসঙ্গে আইইইইই রুয়েট স্টুডেন্ট ব্রাঞ্চ সম্পর্কে আমাদের সাথে আলোচনা করেন এবং ব্রাঞ্চ ওপেনিং এ আমাদের আগ্রহের কথা জানতে চান। এর কিছু দিন পর একদিন মোঃ আব্দুল গফফার খান স্যার, দেলোয়ার হোসেন স্যার ও নাসিরুজ্জামান স্যার আমাদের মাঝে যারা এই বিষয়টি নিয়ে আগ্রহী তাদের নিয়ে একটা মিটিং করেন। সেখানে ০৫ এবং ০৬ ব্যাচের স্টুডেন্টরা উপস্থিত ছিলেন। সেই মিটিংএ রুয়েট স্টুডেন্ট ব্রাঞ্চ এর শুরুটা কিভাবে হবে, আমাদের লক্ষ্য, উদ্দেশ্য, সংবিধান, সদস্যপদ নিবন্ধন সব কিছুর উপর একটা খসড়া আলোচনা হয়।

অতঃপর নানা প্রতিকূলতা ও অফিসিয়াল ফর্মালিটি শেষে ১৬ই সেপ্টেম্বর, ২০০৯ এ আইইইইই রুয়েট স্টুডেন্ট ব্রাঞ্চ তার প্রথম এক্সিকিউটিভ কমিটি ও ২৮ জন ফাউন্ডার মেম্বার নিয়ে যাত্রা শুরু করে। শুরুতে সব কিছু গুছিয়ে নেওয়া, বাৎসরিক কর্ম পরিকল্পনা, অন্যান্য স্টুডেন্ট ব্রাঞ্চ ও বাংলাদেশ সেকশনের সাথে নিজেদের পরিচিতি সব মিলিয়ে অনেক চ্যালেঞ্জের মুখোমুখি হতে হয়েছে। তবুও আমরা থেমে থাকিনি। একেরপর এক সেমিনার, ওয়ার্কশপ, পেপার কম্পিটিশন আয়োজন ও অন্যান্য স্টুডেন্ট ব্রাঞ্চের প্রোগ্রামে অংশগ্রহণের মাধ্যমে নিজেদের ভুল ভ্রুটি সংশোধনের মধ্যদিয়েই এগুতে থাকে আমাদের পথ চলা। সদ্য ভূমিষ্ঠ ব্রাঞ্চটি হাটিহাটি পা পা করে করে নিজের অনাগত পথ চিনতে শুরু করে এবং আজ সৈ অনেকটাই পরিপক্ব।

আমাদের মূল যে উদ্দেশ্য ছিল তা হল নিজেকে এবং একইসাথে রুয়েটকে প্রযুক্তি ভাবনায় অন্যান্য বিশ্ববিদ্যালয়গুলোর সাথে একটা যোগসূত্র তৈরির মাধ্যমে আমাদের পেশাদারি দক্ষতা উন্নয়নের চর্চা শুরু করা। এখানেই ছোট পরিসরে একটা কর্মসূচী আয়োজনের মাধ্যমে একটি টিমের মধ্যে থেকে সিনিয়র, জুনিয়র ও সমকক্ষদের সাথে কাজ করে নিজের কর্মদক্ষতা, আনুগত্যতা ও সর্বোপরি নেতৃত্ব দানের দক্ষতা অর্জনের প্রয়াস চালানো যা পরবর্তী কর্মজীবনে নিজের পেশাদারি ব্যক্তিত্ব বিকাশে সহায়ক হবে।

এর পরের গল্পটা হয়তো অনেকেরই জানা... ধীরে ধীরে ব্রাঞ্চের সদস্য সংখ্যা বাড়তে থাকে। আমরা ০৬ সিরিজ ক্যাম্পাসে থাকা অবস্থাতেই ০৮ ও ০৯ সিরিজের বেশকিছু উদ্যমী স্টুডেন্ট ব্রাঞ্চ সদস্য হিসেবে যোগ দেয়। যাদের কথা না বললেই না। আমি এক বাক্যে বলব "They made us proud beyond expectation"।

যেকোনো কিছু শুরু করা যতটা সহজ তার চেয়ে অনেক বেশি কঠিন তা চলমান রাখা। কারেন্ট মেম্বারদের জন্য এটা অনেক বড় একটা চ্যালেঞ্জ তারা কিভাবে তাদের ব্রাঞ্চার জন্য পরবর্তী একটি মেম্বার রেখে যাবে। তাই ব্রাঞ্চার প্রতিটি জুনিয়র মেম্বারকে প্রমোট করা হয় তারা যেন পরবর্তীতে ব্রাঞ্চারকে সামনের দিকে নিয়ে যেতে পারে।

সেই ধারাবাহিকতায় ০৯, ১০ ও ১১ সিরিজের কাজ দেখে আমি প্রাক্তন একজন মেম্বার হিসেবে ব্রাঞ্চার নিয়ে যথেষ্ট আশাবাদী। ওদের কাজের প্রতি আগ্রহ, একাত্মতা ও মৌলিকতা সত্যিই অনেক বেশি কৌশলী ও ফলপ্রসূ। আইইইইই রুয়েট স্টুডেন্ট ব্রাঞ্চার নিয়ে আমাদের যে সুদূরপ্রসারী পরিকল্পনা তার একটি হল এটিকে স্টুডেন্ট ব্রাঞ্চার থেকে সেকশনে রূপান্তরিত করা। এর জন্য অবশ্য আমাদের কাজের পরিসর ও মেম্বারদের সম্পৃক্ততা বাড়াতে হবে। আর একটি হলো নিয়মিতভাবে বছরে কিংবা দুবছরে অন্তত একটি আন্তর্জাতিক মানের কর্মসূচী আয়োজন করা। আমি জানি এই কাজগুলো আমাদের ক্যাম্পাসে করাটা কতটা কঠিন। তবুও বলব এমনটা করা আমাদের জন্য একেবারেই অসম্ভব কিছু না। আমাদের ব্রাঞ্চার বয়স মাত্র ৫ বছর হলেও আমরা এই অবকাঠামোর মাঝে আজ যে অবস্থানে আছি তা সত্যি অনেক প্রশংসার দাবি রাখে এবং আমাদের পূর্ববর্তী পরিসংখ্যান বলে আমরা চাইলে অনেক কিছুই করতে পারি।

সর্বোপরি রুয়েটের সকল ছাত্র, শিক্ষক, অফিসিয়াল, আইইইইই রুয়েট স্টুডেন্ট ব্রাঞ্চার কাউন্সিলর ও এডভাইজর স্যারদের সব সময় সব কাজে আমাদের পাশে থাকার জন্য ব্রাঞ্চার এর পক্ষ থেকে আন্তরিক ধন্যবাদ। পাশাপাশি তোমাদের জন্য শুভকামনা যারা এই ব্রাঞ্চার কে নিয়ে ভাবো এবং পড়াশুনার পাশাপাশি এর জন্য কাজ করে যাচ্ছে।

সুন্দর হোক রুয়েট ক্যাম্পাস, সুন্দর হোক আমাদের প্রযুক্তি ভাবনা।



# Wireless IMU for sports monitoring

**Dr. Ajay Krishno Sarkar**  
Assistant Professor, EEE, RUET

Applications of electronics in sports and health monitoring are not new but the facilities developed within this research field for the last two decades are amazing. One of the impressive systems devised by the smart works by the researchers is wireless IMU (Inertial Measurement Unit). The thought was engendered from the well-known INS (Inertial Navigation System), a navigation aid that uses a computer, motion sensors (accelerometers) and rotation sensors (gyroscopes). INS can continuously calculate the position, orientation, and velocity (direction and speed of movement) of a moving object. IMU using the similar type of devices was developed to serve the same purpose for the limbs of a sport participant and/or sport implement with the facility to continuously record digital data from a motion (bat, stick, racquet and/or limbs of batter, swimmer, golfer etc.) and send to remote computer by wireless protocol. Those data can be used for further analysis to establish the relationship among the variables (for instance, relations among bat/stick/racquet speed, arm speed, arm mass, bat/stick/racquet mass and their moment of inertia etc.), spatio-temporal identification of limbs and/or sport implements postures to extract the key features of a sport signature. Amazingly, Real-time (while participant in performance condition) document can provide the direct feed-back to the participants about the performed parameters for instant possible corrections; while post-processing document provide the insights for enhancement of performance for recent, intermediate and long term basis and steps for injury prevention.

# Nanotechnology and its Applications

**Dr. Md. Faruk Hossain**

Assistant Professor, Dept. of EEE, RUET

The aim of this article is to describe elaborately the importance of Nanotechnology. At first I want to discuss about the term "Nano" and then to mention different applications sector where the nanotechnology has main role.

Nanotechnology draws its name from the prefix "nano". A nanometer is one-billionth of a meter—a distance equal to two to twenty atoms (depending on what type of atom) laid down next to each other. Nanotechnology refers to manipulating the structure of matter on a length scale of some small number of nanometers, interpreted by different people at different times as meaning anything from 0.1 nm (controlling the arrangement of individual atoms) to 100 nm or more (anything smaller than microtechnology). At the small end of this scale, the structure is controlled to atomic precision—each atom is exactly where it should be for the optimum function of the material or the device. The Foresight Institute is focused on this small end of the scale: atomically-precise manufacturing or "molecular manufacturing". The impact of nanotechnology has extended from its medical, ethical, mental, legal and environmental applications, to fields such as engineering, biology, chemistry, computing, materials science, and communications. Major benefits of nanotechnology is included to improve manufacturing methods, water purification systems, energy systems, physical enhancement, nanomedicine, better food production methods, nutrition and large scale infrastructure auto-fabrication. Nanotechnology's has reduced size may allow for automation of tasks which were previously inaccessible due to physical restrictions, which in turn may reduce labor, land, or maintenance requirements placed on humans. Potential risks include environmental, health, and safety issues; transitional effects such as displacement of traditional industries as the products of nanotechnology become dominant, which are of concern to privacy rights advocates. These may be particularly important if potential negative effects of nanoparticles are overlooked.

## Receive Donations & Investments Through Website

**Engr. Md. Sharafat Ali**

Assistant Engineer (R&D), 3ENGINEERS

Graduate Student Member, IEEE

Crowdfunding is an idea to raise fund for new & unique projects developed by upcoming entrepreneurs and they have recently started their activities in Bangladesh. Crowdfund Bangladesh aims to be the preferred home for crowd funding in Bangladesh. They are providing a funding platform for many projects including e-commerce and technology related projects. They invite projects specifically from entrepreneurs that have ground breaking products but lack financing to take their business to the next level. It is an idea to bring together entrepreneurs and risk capital through crowd funding.

Crowdfund also invites entrepreneurs that want to sell their products through relying on micro pledges from the Bangladeshi community to raise funds for the projects on Crowdfund Bangladesh. No pledge is too small or too big. It's a step to bring together entrepreneurs and raise capital through crowd funding. There are no limits to the type of project that can be funded here. Crowdfund is full of various projects that are brought to life through the support of entrepreneurs around the world and anticipate thousands of people to pledge their support for the projects. Crowd funding is a rising phenomenon around the globe. They invite projects specifically from the students that have ground breaking ideas but lack the financing and expertise to commercialize their ideas. Most entrepreneurs have funded their ventures in similar ways; not just with help from large patrons, but by soliciting money from smaller patrons, often called subscribers. The idea of crowd funding is totally new in Bangladesh and only a few people know about its existence & motive. If we can use this idea intelligently it can be very helpful for entrepreneurs in Bangladesh as it has set examples of raising funds for entrepreneurs in countries like USA.

Website reference: <http://www.crowdfundbangladesh.com/>

# Higher Study Abroad (HSA) Foundation

**Tanmoy Das**

IPE-06, RUET, MSIE, Florida State University, USA

Higher Study Abroad (HSA) Foundation is a Nonprofit Organization in Bangladesh. Many a person wants to go abroad for higher study, but for information gap in Bangladesh, a lot of students cannot make it happen. HSA's ultimate goal is to provide all necessary information relating to higher study abroad. HSA website is <http://www.higherstudyabroad.com> HSA afford sister concerns in various countries in the world. HSA also have active facebook group, separately, for every public & private universities in Bangladesh.

For more than three years, we are working on different zone from application process of higher study to living style in abroad. We have experts from different universities around the world from USA, Canada, Australia, Germany & so on. Suppose, you need someone from Arlington, Texas. We are here to connect respective people with you.

HSA full length video classes, fully free, on GRE, TOEFL & IELTS. Useful link: <http://www.higherstudyabroad.com/videos/>. A facebook page of 75,000 members are accelerated by HSA to answer numerous questions of aspirants. HSA is, always, trying to help all aspirants with all kind of information relating to Masters & PhD. HSA also have a thread to ask questions; <http://www.higherstudyabroad.com/askhsa/index.php/>

We arrange countrywide seminars and workshops with speakers from top-ranked universities from all around the world. We make engaging video clips and courses which are interactive, informative and fun to learn. Our huge pool of altruists generate original publications on a regular basis. We use the power of social networking to answer any study abroad related questions, from students and faculties residing all over the world, in minutes. Most importantly, you know nothing about higher study, HSA will be with you in your whole journey including test preparation, applying to university, visa suggestions & lifestyle in abroad.

# Program Timetable

## Day 1 : 19 June 2014

Hour	Details
08:00	Registration
09:00	Opening Ceremony
09:30	Tea Break
09:45	Reporting for Idea Contest
10:00	Session 1 : Entrepreneurship & Future Start-ups Speaker: Atiqur Rahman Sarker Sohel, CEO of MUSPANA Filament Engineering Ltd
10:45	Pitch Your Idea
12:45	Lunch & Prayer Break
15:30	Workshop on planning for product development
16:00	Story Telling
16:30	Session 2 : Entrepreneurship & Business Planning Speaker : Prof. Dr. Md. Mosharraf Hossain, Head, Dept. of IPE
17:15	Tea Break
17:30	Session 3 : Perception of an Entrepreneur Speaker : Prof. Dr. Anwarul Hasan Sufi
18:15	Closing of Day 1

## Day 2 : 20 June 2014

Hour	Details
09:00	Reporting & Breakfast
09:30	Session 4 : Technology & Entrepreneurship Speaker: Mahmudul Hasan Sohag, Chairman of OnnoRokom Group CEO of rokomari.com
10:45	Mentoring & Develop Your Idea (free time for selected 12 ideas)
12:00	Prayer Break
15:00	Final Presentation for Idea Contest
17:30	Tea Break
19:30	Closing Ceremony
20:00	Gala Night – Prize Giving & Grand Dinner



## Host Sub-Committees

### **Technical Committee:**

Prof. Dr. Muhammad Abdul Goffar Khan  
Engr. K. M. Nasim  
Engr. Md. Sharafat Ali

### **Program Committee:**

Prof. Dr. S. M. Abdur Razzak  
Md. Aliullah Sujan  
S M Nahid Siraj  
Faria Nawer  
Khandakar Shabbir Ahmad

### **Registration Committee:**

G K M Hasanuzzaman  
Mohd. Ebadur Rahman  
Fahmida Ahmed Antara  
Md. Shakhawath Hossain  
Md. Abdul Al Azmain  
Shoumik Hasan Dip

### **Refreshment Committee:**

Dr. Md. Masud Rana  
Tushar Sarkar  
Imam Mehedi Hasan  
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MUSPANA Filament Engineering Ltd.



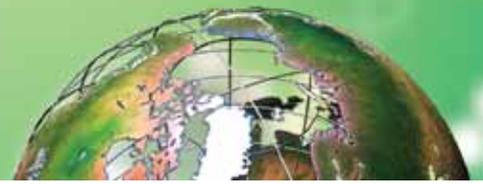
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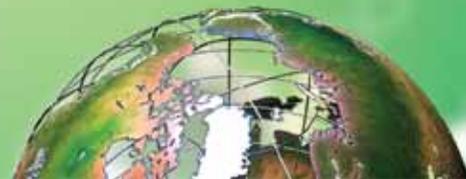
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