



On Campus

The Institution of
Engineering and Technology

Beacon

IET KANYAKUMARI LOCAL NETWORK
YEARLY NEWSLETTER

2017-18

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NEWS

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Ceremony of KKLN

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Elevators

*Cover Page : Joseph Swan , Former IET President
First Inventor of the Incandescent Bulb*

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MEMBER NEWS



ARUNACHALA COLLEGE OF ENGINEERING FOR WOMEN

REPORT ON IET-ACEW ONCAMPUS CHAPTER

IET- ACEW On campus chapter have been functioning very effectively for the past three years. The events held during the past one year have been highlighted. IET-ACEW student chapter Award Ceremony was held on 23-03-2017 at our Chapter. 18 IET members have received various awards for their excellent contributions in various domains. National Level Technical Symposium "Elegrid 2k17" organized by the Department of Electrical & Electronics Engineering was held on 15-09-2017. The participants from various colleges have actively participated and presented their papers in the symposia.

"Engineer's day celebrations" were held on 21-09-2017 to celebrate the professionalism of engineers. Various events such as Technical Quiz, Paper Presentation and other events were conducted and the winners were rewarded with prizes. Workshop on "Design Thinking" was held on 21-09-2017 to develop the thinking skills of young engineers in developing various products.

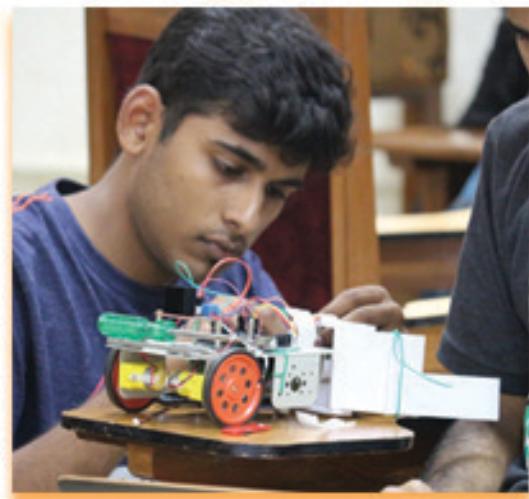
"IoT using Raspberry Pi" was held on 22.02.2018 to get an exposure to recent trends in IoT technology. The IET members were highly benefitted out of this workshop. "Science Exhibition - Step 2k18" was held on 23.02.2018. The school students from various parts of TamilNadu have actively participated and presented innovative models in the exhibition.

MEMBER NEWS



COLLEGE OF ENGINEERING TRIVANDRUM

Drishti, is the annual technical festival of College of Engineering, Trivandrum. It is one of the biggest and most prestigious tech fests in South India, attracting students and young professionals from different parts of Kerala and neighbouring states. The student branch of IET was very proactive during its 2018 version, and was a major contributor to the festival's events, workshops and exhibitions. The following were the events conducted by the IET student branch during Drishti, 2018.



EXHIBITION

The IET Student Branch members, put together exhibitions of their projects, during Drishti, 2018, thereby showing their prowess and expertise in the field of engineering. Hovercraft, Robotic arm with six degrees of freedom, Ballbot, Musical Stairs, Chladni Plate(Cymatics) and Hologram(POV), were some of the few exhibits.

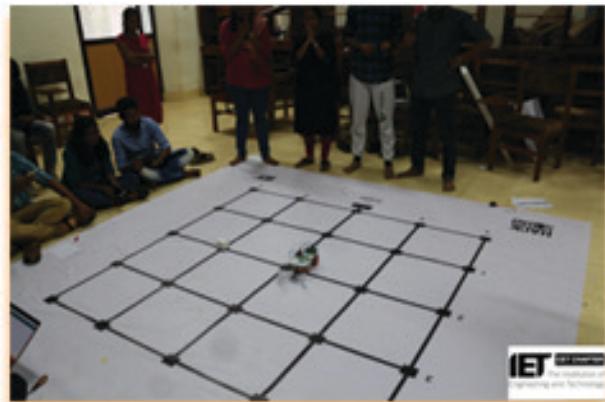


PRESENT AROUND THE WORLD

The University level rounds of IET's global presentation competition Present Around The World (PATW) was conducted in association with KSCSTE (Kerala State Council for Science, Technology and Environment) as an event of Drishti. Greeshma Susan John, from Mar Baselios College of Engineering & Technology, Trivandrum, bagged the first prize while K V Avinash, from National Institute of Electronics & Information technology, Calicut and Joseph John Panicker, from Mar Baselios College of Engineering & Technology, Trivandrum, held the second and third positions respectively.

HACKSQUAD

In keeping with this year's Drishti motto of "Engineers for Society", the student branch organised HackSquad, a hackathon aimed at providing an innovative solution to problems faced by the society. The competition was a flagship event of this year's Drishti. The 2 day event involved an online quizzing round, a time trial task round and a full day hackathon. The finalists were required to make a robot that could detect an object and push the item out of the arena, simulating a simple autonomous garbage disposal system involving robots.



It was a massive success with 21 participating teams. The first position was held by the team from Jyothi Engineering College, Thrissur, Second postion by the team from CUSAT, Kochi and the third position by FISAT.

AR WITH ARDUINO

The world of augmented reality was implemented using arduino boards by this workshop organised by student members of IET CET. A one day workshop covering the basics of microcontroller programming,image processing with OpenCV and Python was attended by 10 teams.The Arduino board was interfaced with a camera to create an augmented reality experience



WORDPRESS WORKSHOP

WordPress is a premiere blogging and content management system for those seeking an easy to set up and maintain, blog. In this workshop, the participants, built a simple blog using free Wordpress themes and also walked through the basics of getting a polished site live, quickly and cheaply.The workshop was attended by 75 participants from different colleges

MEMBER NEWS CET



IoT WORKSHOP

A workshop based on connected devices which is otherwise known as Internet of Things was conducted. The two day workshop was handled by Dr. Anantha Narayanan V, Assistant Professor at the Department of Computer Science and Engineering, Amrita School of Engineering, Coimbatore. The event saw a footfall of 80 participants from different colleges across Kerala. The workshop covered programming of NodeMCU to create wireless communication with different devices thereby creating a chain of things connected by internet.



MEMBER NEWS

Mar Baselios College of Engineering and Technology Thiruvananthapuram

IET-MBCET CHAPTER INAUGURATION

IET-MBCET Chapter was re-inaugurated on 23rd Aug'16, with 60 new Student members and 2 Faculty from EEE Dept. Faculty members are Ms. Elizabeth Varghese (Assoc. Prof) and Ms. Jomole Joseph (Asst. Prof), who is also the Faculty Advisor to the chapter.

Function was presided over by Prof. Viswanatha Rao (Vice Principal, MBCET), Dr. M Marcelline Beno (Chairman (YP) IET Kanyakumari Local Network (KKLN), IET (UK) Council Member), Dr. V Christus Jeya Singh (Treasurer, KKLN), Mr. S Raghavan from Bangalore Head Office and Ms. Jomole Joseph, Faculty Advisor, IET-MBCET



PROMOTIONAL AWARD



Ms. Jomole Joseph, Asst. Professor, IET-MBCET Faculty Advisor, received the IET-KKLN (Kanyakumari Local Network) Promotional Award on 17th September 2016 for the 2nd Annual General Meeting.

She is also presently the Joint Treasurer, in the Executive Committee of the IET Kanyakumari Local Network.

PAPER RECYCLING INITIATIVE — A TIE-UP VENTURE WITH NSS

A Sustainable Paper Recycling System for MBCET. This initiative was started in 10th September 2016. All waste papers, books etc. are collected by the Housekeeping staff. The IET Students team, then sort it out into Used Lot and Unused Paper. The Used papers are stacked and given for Recycling. The Unused papers are made into Notepads.

It received much appreciation from the NAAC Peer Team and APJ KTU(A P J Abdul Kalam Technological University) Auditors.

MEMBER NEWS MBCET

DOODLE- POSTER DESIGNING AND COLLAGE MAKING



A poster designing/collage making competition was organized by the IET-MBCET student chapter for the students of MBCET on 21st October , 2016. The topic for the competition was "Trivandrum of my dreams". Over 20 teams participated for the competition and the best poster was given a cash prize of Rs.1250 and the first runner up was awarded a cash prize of Rs. 750. The judges for the event were Prof. Rebecca Thomas, Basic Science Dept., Prof. B Prasannakumari, EEE Dept. and Ms. Shalu George, Asst. Prof., Dept. of EEE of MBCET.

SUSTAINABLE PROJECT MODEL EXHIBITION, JOINTLY ORGANIZED BY IET AND ISTE CHAPTERS

As part of the project work included in the subject 'Introduction to Sustainable Engineering (ISE)' under KTU curriculum, an exhibition for the 1st semester B-Tech students was organized on 18th November 2016. Students of all branches participated in a demonstration of "Reduce-Re-use-Recycling (3R) concept for Waste Management" to make useful products out of waste materials. A spectacular display of these models was arranged in The Olympia Hall. More than 100 models which included working models, showpieces, decorative lights, multipurpose disposable materials, etc. were put on display by the students. The Best project was also awarded by the IET Chapter.

Winner — Midhun M S (S1 EEE1), Project Model —Self made 3D engraver from scrap materials.



REC THE TRICK — QUIZ COMPETITION

A College Level Written Logical Quiz competition was organized by the IET MBCET student chapter, on 3rd march,2017, for students as well as faculty of the college. The questions comprised of riddles, logical puzzles, mental maths and so on. Over 100 participants competed in the student category and about 10 in the staff category. The first place holder in each category was given an arduino kit as a token of appreciation. The evaluations were done by the event coordinators with the help of the faculty advisor. Bharath S, 2nd yr, Computer Science Dept won 1st in the Student Category, and Ms. Vandana P, Asst. Prof, EEE Dept, won in the Faculty Category.

PATW — COLLEGE LEVEL HEATS

The college level heats for the PATW was conducted on the campus on 10th march 2017. The winner along with the 1st and 2nd runners up were selected to participate in the next level competition at the Local Network level from where the competition proceeds up to the international level. The judges for the event were Ms. Jomole Joseph, asst.professor , EEE department MBCET and IET On Campus Faculty Coordinator, Mr.Biju Varghese, asst.professor , CS department MBCET, and Training-Placement Officer, and Mr. Tom Thekkel, soft skills trainer at MBCET. Over 20 students participated for the college level heats. Winner: Mr. Joseph John Panicker, 1st yr, EEE, 1st Runner Up: Ms. Sherin Alexander, 2nd yr, CE, 2nd Runner Up: Ashwini Kammath, 1st yr EE.

WORKSHOP ON RC AIRCRAFT

A 2 day workshop on RC aircrafts was conducted on 18th and 19th of March 2017 by the IET On Campus - MBCET student chapter. The workshop was conducted by Skyfi labs . Around 24 teams of five members each participated for the event. The event was open to all colleges. The Faculty and student teams made their own RC aircrafts and had trial flight tests. The participants were also given a study kit during the session.



TALK ON 'IOT AND XCELERATOR PLATFORM'

The IET-MBCET student chapter organized a Talk on 'IOT and Xcelerator Platform' at the college on 28th March 2017. Mr. Raghavan S, Regional Head - South and East IET-India, gave an introduction to the IET services with IOT and introduced the speaker to the group. Mr. Aniruddha Kannal, CEO HED-X Bangalore, the keynote speaker, demystified IOT and pointed out the fact that it is just a framework which connects different technologies making their overall interaction smart. He introduced the Xcelerator, a product of HED-X, which provides a platform for Hands On experience in IOT related projects. This platform would help to bridge the gap between academia and industry expectations. The speaker was effective in making the two hour session very interesting and interactive. 110 students from the Electrical & Computer Science branches, and 5 faculty attended the session. It was well received by both the faculty and students. As a follow up to this session, the participants have requested for a workshop on IOT.

MEMBER NEWS MBCET

CROSSROADS '17-IET FARADAY'S CHALLENGE.

An event called Faraday's Challenge was organized by IET student chapter on MBCET Campus during the college technical and cultural fest "Crossroads". The event was held on 1st of April, 2017. The event comprised of 3 rounds. For the first round the participants were asked to solve a jigsaw puzzle which on the whole was a Circuit system. For the second round the participants were given a video quiz. The finalists from these 2 rounds proceeded to the third round, where they were asked to make a Rube Goldberg system for a simple task such as switching on the light. 5 teams participated in the last round and cash prizes were given for 1st and 2nd holders. Winners were teams from College of Engineering, Trivandrum.



INTERNSHIP AT KOCHI METRO RAIL LTD

The IET On Campus Student Chapter sent 5 member students for a Two- week internship at Kochi Metro Rail Ltd from 12th - 23rd June, 2017. The students got familiarized with the constructional and maintenance systems newly installed in KMRL. They got the opportunity to attend the Inaugural function of KMRL also, presided by Hon'ble Prime Minister Narendra Modi.

WORKSHOP ON PRESENTATION SKILLS

The IET - On Campus Student Chapter conducted a 1 day workshop to enhance communication and presentation skills, on 22nd July, 2017.

Mr. S Raghavan, Regional Head - South & East India - IET, handled the session. He gave a brief intro to how to prepare and take a presentation. Then participants were given 5 mins to present a topic and through the feedback sessions for each of them, he gave them a practical know-how on the areas that need focus to improve their communication and presentation skills. The session was conducted in PG SimulationLab (EEE) from 1:30 to 3:30 pm.

ALL MEMBER MEET

The all member meet of the IET MBCET student chapter was conducted on 24th January , 2018. During the annual meet, our chairman, Mr. Adhitya S, briefed the students about the events to be conducted this year. The briefing of the agenda was followed by the oath taking ceremony. All the students took the pledge from the Secretary Ms. Kaveri Anil, to keep up our dignity and work towards the betterment of our student chapter. All members were made aware of the chapter's future plans.



MEMBER NEWS MBCET

IET REGIONAL SUB FEST (KANYAKUMARI LOCAL NETWORK)



The Regional Sub Fest - Thiruvananthapuram, of Kanyakumari Local Network took place on 21st September, 2017 at Mar Baselios College of Engineering And Technology, Thiruvananthapuram. The IET MBCET Student Chapter was rebranded as IET MBCET On Campus. A number of competitions took place at MBCET in association with this rebranding. The function was attended by about 110 students and faculty members. Students of MBCET and 18 students from St Xaviers Catholic College, Nagercoil participated in the event. The event was presided by Mr S Selva Pradeep and Ms Jomole Joseph, the IET On Campus Champions of KKLN.

The event started with an Introductory Session introducing the information about rebranding the IET Student Chapter to IET ON Campus Student Chapter. The topic of discussion also included the benefits of joining IET and informed the members about the different programs such as PATW and Global Challenge that IET organizes for developing the essential skills of budding engineers. The introductory session led to an Ice Breaking Session where a number of fun activities were provided to the participants for better networking among them. This session was followed by a number of informal games such as Dart, Trampoline, Snake and Ladder , Badminton and Quiz Prelims.

Lunch was served afterwards and the afternoon session continued with Quiz Finals and Poster Making competitions organized under the supervision of the Event Co-Ordinator, Mr Karthik(S7,EEE). The Poster Presentation on the topic — Ganga Rejuvenation, was evaluated by Ms. Jomole Joseph, Mr. S Selva Pradeep, Mr. Abraham and Mr. Brahmanand M. The afternoon came to an end with an entertainment session and the Prize Distribution ceremony. The students had a great time having fun and interacted more with each other, set aside from their usual routine days in College.

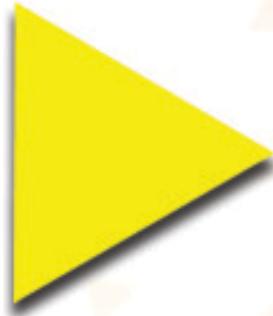


IGNIET 2K18: An event for Freshers

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MEMBER NEWS



Mar Ephraem College of Engineering & Technology



Two Days Workshop on Python and its Applications

Day 1 (09-11-2017): Session 1 - Introduction to image processing and applications

Day 1 (09-11-2017): Session 2 — Introduction to Python and Installation Procedure

Day 2: (10-11-2017): Session 3 — Basic Operations using Python

Day 2: (10-11-2017): Session 4 — Image and Video processing using Open CV

IET KANYAKUMARI LN INSTALLATION CEREMONY

Report on Fourth installation ceremony of KKLN

Venue: Seminar Hall, Mar Ephraem College of Engineering & Technology (10-11-2017)

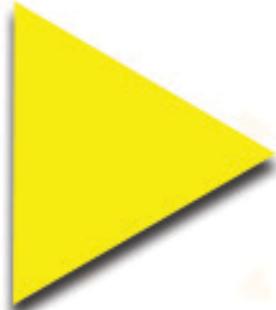
As per the Schedule the IET members from the Several Colleges were departed the Venue, every academic year IET assembling a meeting for Selecting the New members for the New academic Year.

On behalf of that the IET, Kanyakumari Local Area Network Assembled the Fourth installation Ceremony at Mar Ephraem College of Engineering & Technology, Elavuvilai. For the preceding academic year 2017- 2018 IET Organized Installation Ceremony with the same enthusiasm and determination among the new set of coordinators, volunteers.

After the Registration, Dr. A. Lenin Fred (Chairman Elect - IET Kanyakumari Local Area Network) had delivered the Welcome Address. After that the Lightening of Kuthuvilak donned by the IET Chairman, Secretary, Treasure and Coordinators. Dr. S. Joseph Sekhar (Chairman, IET kanyakumari local Area Network) Introduced the New Office Bearers. Then Dr. Lenin Fred (New Chairman, IET Kanyakumari Local Area Network) delivered the acceptance Speech. After that Prof. R. Bright Reginold Raja (Secretary, IET Kanyakumari Local Area Network) delivered the Action Plan for the Year 2017-2018, and finally for the Felicitation Very Rev. Fr. Josephin Raj (Correspondent, Mar Ephraem College of Engineering & Technology) and Dr. M. Maselin Beno (Treasurer, IET Kanyakumari Local Area Network). At last not the least Mr. M. Manoj (YP Chairman, IET Kanyakumari Local Area Network) delivered the Vote of Thanks for the Dignitaries on the dais and the IET Members from Several College for the Participation and Support.

After the Ceremony, IET KKLN Committee meeting and IET KKLN YP Meeting also held.

MEMBER NEWS



ST.XAVIER'S CATHOLIC COLLEGE OF ENGINEERING



The IET SXCCE student chapter had a busy quarter of IET activities. The activities focused on practical and technological skills. The activities include a 2 day workshop on "Android Application Development" which improved their practical knowledge. They visited the "Mathoor Hanging Bridge" along with various other industries and admired the engineering works. They conducted the preliminary round of Present Around The World, PATW and a

National level technical symposium INNOVIET with competitions like paper presentation, poster making, adzap, turn quotes etc. They have actively participated in IET KKLN level programmes.

They had interactive sessions and technical talks on "IOT and its acceleration platform" and conducted various workshops like SEE workshop and PLCSCADA workshop. IET SXCCE On Campus have successfully initiated the rebranding of IET student chapter as IET ON CAMPUS and have conducted IET KKLN Regional ON CAMPUS fest. On Campus Student members (20 Nos) have actively participated in the rebranding of IET student chapter as IET ON CAMPUS fest at Mar Baselios college of Engg. Technical competitions like paper presentation and quizzes were conducted in accordance with the IET engineers day celebrations.

The IET SXCEE student chapter jointly organised seminars and an international conference MEETCON 17. They have never failed to conduct weekly meetings named IET VISION, technical presentations and technical knowledge was ensured by starting a library in which IET journals, magazines of various disciplines are available.

IET-SXCCE STUDENT CHAPTER INAUGURATION

The IET-SXCCE student chapter inauguration was held on 19 Aug 2017. The chairman of IET Student chapter, Ms. A.J.Dhibiah welcomed the chief guest Ms Angelin Indira ,IIT, Chennai who gave a powerful speech regarding the active participation of IET members and later the IET pledge was read. Various faculty members gave felicitations which encouraged the young aspirants and events were conducted in accordance to the inaugural function.



IET ON CAMPUS

IET SXCCCE On Campus Student members have actively participated in the rebranding of IET student chapter as IET ON CAMPUS fest at Mar Baselios College of Engineering, Trivandrum on 21st September 2017. The session started with games like snake and ladder and trampoline as well as quizzes and 18 student members along with faculty advisor Prof. S. S. Selva Pradeep and solar panel coordinator Prof.Abragam Siyon Sing, participated from IET-SXCCE On Campus.

IET SXCCCE On Campus have successfully initiated the rebranding of IET student chapter as IET on campus and have conducted IET KKLN Regional ON CAMPUS fest on 9th September at St.Xavier's Catholic College of Engg,Nagercoil IET KKLN chairman and other members felicitated the gathering and the sessions continued with games,quizzes,idea presentation and poster preparations.

MEMBER NEWS

VICKRAM COLLEGE OF ENGINEERING



IoT TALK AND XCCELERATOR PLATFORM

Vickram College of Engineering organized a Guest Lecture on "IOT TALK and XCCELERATOR PLATFORM" in collaboration with IET in our campus on March 29th, 2017. Mr. Aniruddha Kannal CEO of HED -X,Bangalore presided over the function

INDEPENDENCE DAY CELEBRATIONS

Organized a INDEPENDENCE DAY Celebration on August 14th , 2017 for IET students in our campus at the Ramanujam Conference Hall .



FAREWELL

Organized a FAREWELL for Final year IET students in our campus on March 31st , 2017 at the Ramanujam conference Hall .

MEMBER NEWS VCE

IET CAMPUS EVENTS



Organized the IET-VICKRAMCE ON CAMPUS Events held at VICKRAMCE on 27th September 2017 at the Ramanujam conference Hall .



WINNING EDGE

The IET-VICKRAMCE Chapter of our college organized a Guest Lecture on topic "Winning Edge" by Er. M. Rose Cyril Xavier, Sub-Divisional Engineer,BSNL, Nagercoil for the First year ,2nd year , Third year and Final year IET student members on January 19th, 2018, Friday at 1.00 pm at the Ramanujam conference Hall (Core Block).

ARTICLES

IET-MAR EPHREM

A Sodium-Based Battery Alternative



The projected growth in renewable energy has also led to the fore-casted need for battery farms to store power and provide electricity on dark nights when the air is still. While lithium ion batteries are the top choice for performance, lithium itself is rare and costly. Stanford University researchers believe they have developed a battery chemistry that could serve as an alternative to lithium at a substantially lower cost. Chemical engineer Zhenan Bao and her collaborators have created a sodium ion battery costing less than 80 percent than that of a lithium ion battery, with the same storage capacity. The team's findings were published in a recent *Nature Energy* paper.

The sodium-based electrode has a chemical makeup common to all salts: a positively charged ion—in this case, sodium—joined to a negatively charged ion. In table salt, chloride is the positive partner, but in the Stanford battery, a sodium ion binds to an organic compound known as myo-inositol.

Originally, according to Lee, the compound stored, at maximum, only two sodium electrons per unit—not good enough to compete with the energy density of the lithium ion battery cathode. But as reported in the journal, the team examined exactly how the sodium ions attach and detach from the cathode and found a way to double the number of ions that can latch on. "Our new cathode comprised of carbon, oxygen, and sodium, has a comparable energy density to a conventional lithium cathode, and so it can be a desirable option in building an ion battery to replace Li-based technology for grid-scale application," said Min Ah Lee, postdoctoral scholar and author on the paper.

"Currently, our full-cell energy density is limited by the anode with a relatively high operating potential, so we are working on making a better anode to have comparable full-cell energy density in the near future," she added.

The cost difference between lithium and sodium is stark—about \$15,000 a ton to mine and refine lithium versus just \$150 a ton for the ubiquitous sodium-based electrode material. When cost-per-storage is factored in, the team's models offer promise.



Japanese company plans space elevator by 2050

Japan's giant construction company, Obayashi Corporation, has announced that it plans to build an elevator into space by the year 2050.

Researchers heading into space in the not-too-distant future could be travelling by elevator rather than rocket if Japanese construction giant Obayashi Corporation has its way. The company announced two years ago that it has the capacity to build a space elevator -- and have it up and running by the year 2050.

Speaking to the Australian Broadcasting Corporation this month, the company said that the elevator would reach 96,000km (59,652 miles) into space (for reference, space lies beyond the Kármán Line, at an altitude of 100km, the International Space Station is 330km, and the moon is 384,400km from Earth), and use robotic cars powered by magnetic linear motors (maglev, as seen in high-speed rail lines around Asia and Europe) to ferry cargo and humans to a new space station.

All this, the company said, can be achieved because of carbon nanotechnology.

"The tensile strength is almost a hundred times stronger than steel cable so it's possible," said Obayashi research and development manager Yoji Ishikawa. "Right now we can't make the cable long enough. We can only make 3-centimetre-long nanotubes but we need much more... we think by 2030 we'll be able to do it."

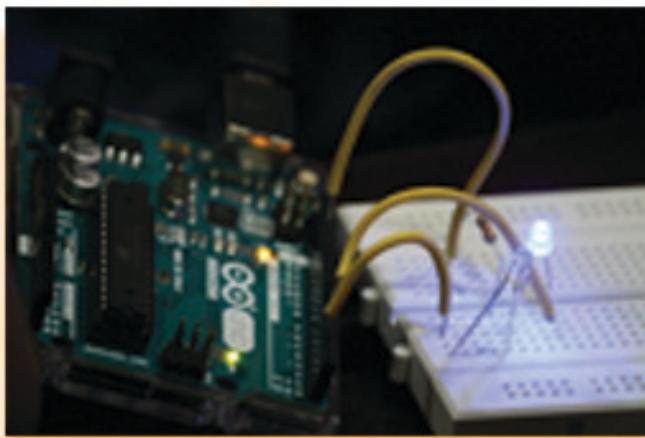
Teams around Japan are working on logistics problems associated with the elevator. A team at Kanagawa University, for example, is working on the problems associated with the robotic cars: how to ascend at varying altitudes and how to brake. If the project is successful, it could massively cut the cost and danger associated with space trips: cargo usually costs around \$22,000 per kilogram via shuttle; using Obayashi's space elevator, the cost would be closer to \$200, the company said.

Obayashi is not the only company working on the feasibility of a space elevator, which could provide cheap solar power, provide a hub for space exploration and boost space tourism. In 2012, former NASA contractor Michael Laine launched a Kickstarter to raise funds to research the feasibility of a lunar space elevator, raising \$110,353.

Building a space elevator, however, will likely require an international effort, and the International Space Elevator Consortium is already attempting to coordinate efforts.

IET CET

Experience of Two Day IET Arduino Workshop



An Arduino workshop was conducted in the college by the IET student chapter of CET for the first year students. I was fortunate enough to attend the two days workshop session. The agenda of the workshop was equipping us with the basic ideas of microcontrollers, microprocessors, etc.

A heartfelt effort was made from the side of the seniors in introducing the various topics like serial communication, arduino, use of audio jack, etc. Being an electronics engineering student, it had indeed given me a chance to sharpen my knowledge and skills in my field of choice. Because of this workshop, I realized I still had a lot to learn despite what I thought, but this allows me to improve my knowledge more as I continue to work with IETSBCET. We got to work in teams where we were given a few tasks like blinking an led, blinking matrix led, use of audio jack, etc.

There have been, and there will continue to be, hopefully many opportunities to learn more ways of improving my knowledge in the technical field as a result of my time working in IET student chapter of CET which I am truly thankful for.