

Fresh challenges to face every time,
but we make our way there

DIG _ IT

An insight into the Journey of the
girls to take over the world!

MESSAGE FROM HOD

Our first batch of autonomy has completed the third year exam and is entering into the final year. 8-10 week internship was mandatory for this batch. To our surprise, 95% of students are doing internships in reputed companies such as Goldman Sachs, Citi, Walmart, Boeing, Dell and many more. Good job girls! Very proud of you!! Hope maximum number of them get pre-placement offers as well!! Sivani Kamtikar has made us proud by being the first student from CCEW to grab the opportunity of getting a research internship at University of Notre Dame, USA.

FROM EDITOR'S DESK

Innovations are baby steps toward evolution. We, as engineers, always find better ways to the same task and now this helps us keep finding advanced solutions.

In an Institute like Cummins, we gain confidence that a woman can drive a change as well. We in this place, embrace our powers and can work with the best of our abilities to be the player in this game of "Innovative Evolution" and not just a spectator.

Ambitions drive everything. Every Idea, big or small, unless and until has its hands tied with ambitions, does not reach the finish line. In Cummins, we have such

"Ambitious Women" who have played a key role in inspiring our next generations to think out of the box and trying to go the extra mile to achieve their goals.

So here in "DIG IT" we are proud to feature and let our ambitious ladies speak their heart about their experiences, challenges, perspectives of looking into the world, as well as their failures and their "Extra Mile Journeys".

As we delve in further, and till the end of this issue, we are sure that every reader would be fully motivated and ready to get into the hustle to "Get There" - The goal they want to accomplish. So enjoy this issue and every story we are featuring. All the best!

Editors:

Aditi Patil

Simran Thusso

Saloni Bangad

(T.Y. B.Tech)

FACULTY ACHIEVEMENTS

- 1) Mrs. Leena Panchal published a Conference paper on "Geospatial Artificial Intelligence: The power of 'Where'", organized by Department Of ECE And EIE, Easwari Engineering College, Ramapuram, Chennai on 23rd March 2019.
- 2) Dr. Dipti Patil won magnificent awards: Best Professor in Information Technology Award in Dewang Mehta National Education Awards and Best Professor in Information Technology Studies Award by DNA

WHAT EXACTLY IS SWE?

(A Word from the SWE President)

Society of Women Engineers(SWE) was founded back in 1950. It is a non-profit non-governmental organisation. For over six decades, the SWE has given women engineers around the globe a unique place and voice within the engineering community. SWE provides opportunities for women in the male- centric world of technology and continues to evolve with the challenges reflected in today's world to help advance the impact and role of women in technology. The Society of Women Engineers at Cummins College of Engineering for Women was established in 2016 to provide students the ideal engineering experience. Every year we host a series of events which are classified into three main buckets- Leadership (Networking and Professional Development), Engineering and Outreach (Community Service). We take great pride in welcoming students of all identities into a supportive network of members and allies who share diverse experiences in STEM.

The academic year starts with our annual kickoff, where we introduce our freshers to SWE CCEW. We invite respected industry professionals who are a part of SWE to help students understand the benefit of being a part of such communities.

Every year we have three general body meetings which include our panel members, student representatives, faculty in-charge and industry advisors. Two of these meetings are held in college, one every semester. The third meeting is held at the Cummins Technology Center. We plan our activities, events and sessions which are further executed throughout the semester and provide updates on how far we've come.

Embracing our Social sphere, we visit the Rama Puru shottam, Sadan in MKSS Samstha as an activity to promote STEM education among other 1500 higher secondary and secondary school girls. We spend a day at the Maher Aashram conducting science activities and helping young minds understand the importance of education and STEM.

In 2019 we hosted a flagship event, the Incube conference, themed "Innovation, Inspiration and Inclusion" to evoke a research culture in our college and bridge the gap between the industry and our education by welcoming senior industry professionals who spoke on diverse and up coming engineering topics and the work place.

We also launched a peer-to-peer mentorship program titled "The Grey Project" to provide the ideal engineering experience by helping students form a supportive network of members to share their diverse experiences in STEM. The first and second-year students are guided with extra courses, projects, academics, getting placed, higher education, etc.

We hosted an informative workshop on diverse topics. One such session was conducted by Mr. Anand Lalwani, a PHD candidate at Stanford University on how he led the team that built a satellite for NASA during his under graduation. Another interesting session was one by Mrs. Betsy Spratt the executive director of engineering at Cummins U S, spoke about being a female engineering leader in a male dominated world and the importance of inclusion.

During our Technical fest, Innovation, we host a Poster presentation competition dedicated to women engineers who are lost in history, Women who persisted through engineering and new and upcoming research and technologies. We also host quizzes and fun events like The Solution Room, where students are expected to solve a real-world problem using technology by building a product out of it. We have amazing opportunities to attend conferences like the Cummins women in technology Conference and the SWE Local Conference, where besides networking, we bridged the gap between industry and curriculum. We also got to learn more about being inclusive, understand our strengths and leadership.

In conclusion, the SWE CCEW chapter provides you with opportunities you could otherwise find very difficult to access. It paves a path for your career and helps you be the best engineer you can be.

Tanya Jojy
(President SWE Cummins)
(Final Year B.Tech)

PERSEVERENCE CAN MAKE "IT" HAPPEN!

(Experience of an IT Class Student of Being a Mechanical Department head of Team Robocon)

As it is rightly said, Coming together is a beginning, staying together is progress and working together is success.

Robocon was a team, a family, a journey of all which is very memorable. I learnt a lot in these two years.

First year was in general more of a learning period. We first years as a team participated in the IRC of IIT Bombay techfest which was like a great experience.

The five days at Balewadi stadium was a great hands on experience. We observed and learnt a lot from others bots. We actually saw other teams using those mechanisms which we tried and failed to do but they implemented successfully.

After the first year the team was carried out to the next year where we were only 13 people who continued which included three seniors and 10 of us second years. We worked hard in the R&D period to try all of those things which we saw last year but we haven't tried it. We successfully implemented and used some like pneumatics, wall follower bot and many more.

The next thing was to again build the team to compete in finals and we started recruiting people. So, before that all the members of the old team were given responsibilities. I was made the Mechanical Head. I know it sounds weird that pursuing an IT engineering, I was head of the mechanical department of the team. But everything in Team Aaveg, was multidisciplinary. I had worked in mechanical domain in my first year too so I was made therefore I was made the mechanical head. I had 8 people with me in the mechanical team which even included seniors.

So, we got our whole final team(old + new) and there the journey and the challenges started. The first challenge which I faced was learning Solidworks, a software for mechanical designing of the bot and simulating motion in it. I learned it through youtube tutorials and tried all the designs like gear meshing, the previous year bot, rack and pinion etc. But it is actually now an add on thing for me.

Slowly, we started having brain storming sessions and trying mechanisms for each task. There were lots of nightouts from the beginning. It was difficult to manage studies and robocon because it was after college from 5 p.m.-10p.m. We sometimes even had nightouts after which went college in the morning. Everyone was trying their best but still there were issues.

Our theme for the year was to make one manual and one walking autonomous bot. The mechanical of the bots demanded to be strong. It was the first time we were making a quadraped. There were issues which even we never thought of. How the bot should walk in what pattern or gait, what type of shoes would give proper amount of friction, what amount of weight it can bear itself. All these problems were solved slowly by trying different things and picking the best of that.

There were days when there was no lead what must we do to solve any problem as everything had stuck in weird manner. There were days when there was so much to do that even nightouts weren't enough. But altogether as we say alone we can do so little and together we can do so much.. Together we tried our best.

The competition was in june at IIT delhi. Going there by train and managing things there was altogether a different lot of experience. We were staying at IIT delhi hostels. For the first two days we had our practice slots and finally the day arrived, the final competition.

We had two matches. We tried our best in both of them. Watching our bot on the arena was almost like a dream come true. But as nothing's perfect. Everything has its flaws. There were some mistakes of ours. Some competitive bots were really a tough competitors. We saw really amazing bots of others. And we secured 17th rank in the nationals.

Altogether, I had a great fruitful and amazing journey of ABU Robocon which I can never forget.

Anushree Pathak
(T.Y. B. Tech)

A DESIRE TO LEARN IS ALL " IT" NEEDS!

(Internship experience in Goldman Sachs and her PPO accomplishment)

I am Akanksha Kor and I spent the summers of 2019 working at the Global Investment Research(GIR) Division, Goldman Sachs, Bangalore. I would say that my experience there was bittersweet but before I go into that, let's start from the very beginning.

The selection process of GS comprised of a written test followed by a series of interviews. I did not do anything specific for GS per se, but I did take a look at the Algorithmic and Mathematical Puzzles on online platforms like GeeksforGeeks, Hackerrank etc. Platforms like these would help anyone who is sitting for an internship. I gave a total of 3 interviews in different fields ranging from basic coding (writing code for lists etc.) to simple coding algorithms, mathematics, and HR.

Now, coming back to the internship experience, I worked with the Global Investment Research division, which provides original and fundamental insights and analysis for clients. The project assigned to me was related to web development. In the course of my project, I have learned various technologies (ReactJS, Spring, Spring boot, REST API, MongoDB, Elastic Search) which I used in implementing my project. I also learned about the Software Development Life Cycle methodology in designing the application from bottom up with the help of senior engineers. Apart from learning technical skills, I have also picked up several soft skills.

The people at GS were very smart and hardworking and pushed a lot in the office. I saw that to get a PPO, Goldman Sachs expects you to demonstrate more than your intellect. In addition to the project assigned, connecting with people and making contacts is given very high importance in Goldman Sachs. Interns are encouraged to get to know new people, talk to them and try to understand their work and I had numerous opportunities to network with senior leaders and colleagues alike to glean many aspects of the corporate world. I also learned to collaborate with other fellow interns and develop a sense of community through activities like CTW(Community Team Work).

My willingness to learn, maintain appropriate conduct with my teammates, and trying to complete my assigned tasks punctually helped me bag pre-placement offer from GS and I am glad I'll be joining back soon!

Akansha Kor
(Final Year B.Tech)

INTERNSHIP- A GREAT LEARNING EXPERIENCE

(Internship Experience after Second Year)

One of the key experiences recommended during my time as an undergraduate is doing an internship. I was lucky enough to get an opportunity to do an internship after my second year. I can surely say that it was a great learning experience where I actually could understand how the corporate world functions.

I worked at Tectona Soft Solutions pvt. Ltd. My hands-on there was in the domain of Java, but when I actually started working on the application, I understood that I needed to explore and dig into various technologies as an application can comprise of different technologies. So, that was one of the major takeaways I had.

During my internship, I created an application that scanned devices in a particular network and stored that data into the database. As I was working in a security firm, they wanted to make sure that no external device gets access to their network, so I was working on the same.

I also understood how classroom learning is essential, as getting basics strong is handy in learning further advance things. Apart from technical stuff, I also met more people, I understood a team should function, the importance of teamwork, and why it is important to interact. As it helps in your overall development and gives you confidence.

I would suggest that all should thrive to get an internship as it will add to your knowledge and give you an upper edge over understanding how things work in the outside world.

Isha Gawarshettiwar
(T.Y. B.Tech)

AN EXPERIENCE AT THE CITIBRIDGE PROGRAM

CitiBridge Program is one of the most anticipated and desired opportunities our college provides us with. When I got selected in the program, I was extremely overwhelmed. This program provides an opportunity, as in their words provide a "Bridge " between the corporate world and young aspiring students.

The idea of this program is "100 girls, 100 hours". Out of these hours, we went through 50 hour training sessions in the Citi campus itself. We were divided into groups and each group was assigned a Mentor. All the trainers in the sessions taught us in a very systematic manner. The technologies we were using were completely new to us, the real life experience made learning very interesting.

I used to think the technologies we use in our college are the same which companies use. But our perceptions of everything was changed. We were exposed to an intensive industry experience in a short amount of time, which boosted our confidence and it was fun too. At the end, even though this was a training for a short period of time, we learnt a lot.

This program is a great initiative to bring women in technology. The way we were taught ignited the spark amongst us and helped us find our career interests and paths. This is an experience giving us the right vision to look into the real world and make choices on our own.

Gayatri Chaudhari
(Final Year B.Tech)

PLACEMENT STATISTICS (2019-Batch)

STUDENT NAME	COMPANY	PACKAGE
K BHUVANESHWARI IYER	MICROSOFT	39 L
YASHI GUPTA	WALMART	18.75 L
HARDE ARTI	WALMART	18.75 L
TANIYA BHOSALE	CITI Corp(PPO)	13.5 L
TANVI KALE	CITI Corp(PPO)	13.5 L
SNEHAL WASWANI	CITI Corp(PPO)	13.5 L
SHAF A HASSAN	CITI Corp	13.5 L
K BHUVANESHWARI IYER	CITI Corp	13.5 L
SNEHAL PENDHARKAR	CITI Corp	13.5 L
CHAVAN ANINDITA	CITI Corp	13.5 L
PURVA AGARWAL	CISCO	13 L
ASMITA TRIPATHI	AVAYA	12 L
KAJAL KUMARI	DEUTSCHE	11.75 L
ASHWINI PAMPATWAR	UNION BANK OF SWITZERLAND	11.75 L
ADITI GOYAL	DEUTSCHE	11.75 L

DEPARTMENT TOPPERS (As of June 2019)

Class	Name of Student	CGPA
S.Y B.Tech	NAMITA SANTOSH MUTHA	9.26
T.Y B.Tech	SHRISTI JALAN	9.16
T.Y B.Tech	NISHI BOTHRA	9.16
B.E	BHUVANESHWARI KUMAR IYER	9.67