



-ELECTRIFING THE FUTURE

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DEPARTMENT VISION

To become centre of excellence in Electronics and Communication Engineering to meet the challenges of industry and the society

DEPARTMENT MISSION

DM1: Impart high quality education to enable students to face challenges Of Electronics and Communication Engineering.

DM2: Provide all possible support to promote activities in the related areas of VLSI, Communications, Signal Processing, and Micro Processors & Micro Controllers.

DM3: Inculcate ethical, professional values and life-long learning skills to address the societal needs.

PROGRAM EDUCATIONAL OBJECTIVES

PEO1: Graduates shall accomplish Excellence in professional career and pursue higher studies with innovation.

PEO2: Graduates shall be competent professionals by inculcating values with profound knowledge in Electronics and Communication Engineering.

PEO3: Graduates shall have an attitude to apply technical knowledge to solve real time industrial problems and develop lifelong learning attitude.

PEO4: Graduates shall aware of multi disciplinary knowledge in the context of teamwork.

ISSUE 1 | VOL 7

DEPARTMENTOF ELECTRONICS AND COMMUNICATIONENGINEERING

The goal is to impart value-based technical education and train students to become well-rounded engineers in the field of Electronics and Communication Engineering, equipping them for successful careers in industry, research, or higher education. The program commenced in the academic year 2008–09 with an initial intake of 60 students. Currently, the intake for the ECE Department is 120 students. The department has a faculty strength of 23 well-qualified, experienced, and dedicated postgraduate members, including five Ph.D. holders, with several others pursuing their doctorates in various specializations. Additionally, the department is supported by five technical staff members.

The department actively encourages students to pursue postgraduate studies and prepares them for leadership roles in research and development. In addition to the undergraduate program, the department has been offering an M.Tech course in VLSI System Design since the academic year 2012–13, with an intake of 18 students.

The ECE department boasts well-established infrastructure, including five specialized laboratories: Microwave Engineering Lab, Microprocessor & Microcontroller/Simulation Lab, Communications Lab, Electronic Devices and Circuits (EDC) Lab, and a dedicated Research & Development (R&D) Lab.

The department has an E-Yantra Laboratory, established in 2019 and sponsored by the Ministry of Human Resource Development (MHRD). This lab serves as a collaborative platform between IIT Bombay and SVIET, Nandamuru. All laboratories in the department are fully equipped to support advanced technologies and modern engineering practices.

The ECE department also extends its support to the Atal Tinkering Lab at Z.P.H. School, Guduru. It hosts professional chapters such as the IETE Student Forum. All departmental activities are conducted under the IETE banner. In addition, the student association *Versatile Electronic Designers' Association* (VEDA) organizes various technical events such as seminars, quizzes, poster presentations, paper presentations, and project expos.

Each semester, the department arranges a minimum of two guest lectures and one workshop to further enrich the academic experience. Students are actively encouraged to participate in international, national, and state-level technical contests.

CONTENTS

	ALUMNI ARTICLE5
	 Breaking In: My Journey into the Software Industry6
>	STUDENT ARTICLE6-7
	 More Than Just Marks: How Education is Shaping My Personal Growth
>	FACULTY ARTICLE8-9
>	Behind the Scenes of a Research Project: The Journey from Curiosity to



Breaking In: My Journey into the Software Industry

By [SRUTHI SONTI], ECE Batch of [2012-16]

I still remember walking out of my final exam hall at Sri Vasavi Institute of Engineering and Technology, filled with both relief and anxiety. Like many of my batchmates, I had dreams of landing a job in the software industry—of walking into a tech company, writing code that would matter, and building a career from scratch. But what followed was not a smooth entry; it was a journey full of struggles, rejections, learning, and finally—growth.

The Reality Check

In college, we often believe that completing a degree is enough to land a job. But as I started applying, I quickly realized that the software industry is incredibly competitive, and many employers expect more than just a degree. They look for **problem-solving skills, project experience, communication**, and most importantly, **the ability to learn on your own**.

I had decent grades, but I lacked real-world coding experience. My resume was just a piece of paper with academic scores and mini-projects that didn't show real application. That was my first wake-up call.

Learning Outside the Classroom

Instead of giving up, I decided to **start learning on my own**. I chose a few key areas—**Data Structures** and **Algorithms, Python, and Web Development**—and committed to practicing every day. Platforms like **LeetCode, HackerRank, and GitHub** became my second classroom.

I also joined online courses and started building small projects. At first, it felt overwhelming, but every bug I fixed taught me something. Slowly, I built a portfolio that could show employers what I could actually *do*.

Facing Rejections

I must have applied to over 50 companies. Most didn't even respond. Some sent rejection emails. A few gave me online tests—and I failed many of them.

But every rejection pushed me to improve. I treated each interview as a learning opportunity. Eventually, I began to see patterns in what companies asked. I started to focus more on **problem-solving, system design basics, and communication**. I also practiced how to explain my thought process, not just give correct answers.

The Breakthrough

After nearly a year of struggle, I finally got an interview call from a mid-sized IT company. The interview focused on my projects and how I built them. My GitHub repos helped me explain my work. I still remember the moment they said, "We'll get back to you soon." And they did—with an offer letter!

JULY- DECEMBER 2022

ISSUE 1 | VOL 7

It wasn't the biggest company. But to me, it was everything—it was my first foot in the door.

What I've Learned

Now, after two years in the industry, here are a few lessons I want to share with my juniors:

- 1. **Start Early** Don't wait until the final semester to learn coding seriously.
- 2. **Projects Matter** Build something, even if it's small. It shows initiative.
- 3. **Failure Is Normal** Every coder gets stuck. Keep going.
- 4. **Communication Counts** Learn to explain your ideas clearly.
- 5. **Consistency Wins** Show up every day, even when motivation is low.

A Message to Students

If you're a student dreaming of getting into the software industry, know this: you don't have to be a genius to make it—you just have to be persistent. Use your college days not just to earn a degree, but to build skills, take risks, and try new things.

You may fail at times. But trust me—when you finally get in, every struggle will be worth it.

STUDENT ARTICLE

More Than Just Marks: How Education is Shaping My Personal Growth

When I first entered college, I believed education was all about scoring well in exams, completing assignments on time, and getting a job at the end. Like many students, I measured success by grades and believed that knowledge meant memorizing textbooks. But over the past few semesters, I've realized that education is much more than just lectures and labs — it's a powerful force that shapes who we are, how we think, and how we grow as individuals.

Discovering Myself Through Learning

One of the biggest changes I've noticed in myself is how I think about problems. Education has taught me not just to find the "right answer" but to ask better questions. Whether I'm solving a circuit in electronics or writing an essay in communication skills, I've learned that curiosity, not perfection, is the first step to real understanding.

Through group projects, I've also learned the value of collaboration and communication. At first, I struggled — I preferred working alone. But slowly, I discovered that learning with others helped me see different perspectives, listen more, and express my own ideas clearly. These are life skills I didn't expect to gain in a classroom.

Failures that Made Me Stronger

Personal growth doesn't come only from achievements; it often comes from failures. I remember the first time I failed a test in a subject I thought I had mastered. It felt like the end of the world. But instead of giving up, I approached the faculty, asked for help, and changed my study methods. That failure became a turning point. I started seeing setbacks not as signs of weakness but as opportunities to improve. This mindset shift has helped me face challenges with more confidence, both inside and outside the classroom.

Beyond Books: Learning Life Skills

College has also helped me grow emotionally and socially. Managing time, balancing academics with co-curricular activities, staying away from home — all of these experiences have taught me independence, responsibility, and resilience. Participating in cultural events and volunteering in community service programs gave me the chance to explore talents I didn't know I had and connect with people from different walks of life.

Looking Ahead

As I continue my journey, I now view education as a lifelong process — not limited to lectures or semesters, but something that continues every day through experiences, failures, and learning from others. I'm still a work in progress, but I've become more aware of who I am and who I want to be.

JULY- DECEMBER 2022

ISSUE 1 | VOL 7

In the end, education is not just about building a career; it's about building character. It's about becoming a better version of yourself every day — more informed, more empathetic, and more prepared to face the world. And that, I believe, is the real success.



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FACULTY ARTICLE

Behind the Scenes of a Research Project: The Journey from Curiosity to Contribution

Research may often be seen as a polished publication in a journal or a paper presented at a conference, but what rarely gets highlighted is the messy, uncertain, and deeply human process behind it all. As a faculty member, I've come to believe that every research project is as much about personal growth as it is about academic contribution.

It All Starts With a Question

Every great research project begins with curiosity. For me, it started with a simple observation: my students were consistently struggling with a certain concept in digital electronics. I began to wonder—was it the way the material was being taught, or was there something inherently abstract about the concept that made it difficult?

This question led me to explore various teaching strategies and learning models, and soon, a research idea began to take shape: Can interactive simulations significantly enhance conceptual understanding in core electronics subjects?

The Literature Rabbit Hole

The next step was diving into existing literature. This is the phase where excitement meets reality. I found myself buried in journals, often overwhelmed by the volume of work already done. Yet, this process was humbling—it showed me where my work could fit in and where gaps still existed.

Trial, Error, and Triumph

Once the proposal was ready, I collaborated with a colleague from the computer science department to develop a set of interactive simulation modules. We conducted a pilot study with 60 students over a semester.

The data collection was far from glamorous. There were delays, failed trials, and one week where a technical glitch wiped out two weeks' worth of logs. But those hiccups taught us resilience—and the importance of backups!

Student Involvement: A Win-Win

One of the most fulfilling aspects of the project was involving students in the process. They helped in testing the modules, giving feedback, and even contributing to the analysis. It transformed the classroom into a live laboratory, blurring the lines between teaching and research.

From Data to Insights

Analyzing the data was like putting together a giant jigsaw puzzle. We used statistical tools to evaluate improvements in understanding, and the results were promising—students who used the simulations performed 18% better on conceptual questions.

It was a small victory, but a meaningful one.

The Paper and Beyond

We eventually published our findings in an educational technology journal. But the true reward was seeing my students engage with learning in a deeper way and realizing that my curiosity could make a small difference in someone else's academic journey.

Lessons Learned

Behind the scenes of every research project are long hours, moments of doubt, teamwork, trial-and-error, and quiet determination. It's not about finding instant success—it's about the process of discovering, refining, and growing.

If there's one thing I've learned, it's this: research is not just about answers—it's about asking the right questions and being brave enough to explore them.



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