

Celebrating the Generosity of

Mr. Vijay Janapaty



Impact of your Giving in 2023

Director's Message

Prof. Kamakoti Veezhinathan
Director, IITM



Greetings!

IIT Madras continues to retain her top position for the eighth consecutive year, in the National Institute Ranking Framework, thanks to the world-class research of its faculty and students. The contribution and support of Alumni and well-wishers like you has crucially helped this standing and stature. Our achievements in research, education, innovation and entrepreneurship have also earned us the recognition of an 'Institute of Eminence' as well as the top position in the Atal Innovation Ranking from the Government of India.

The institute is making an indelible mark with her 'research with impact' in several areas including quantum computing, drinking water technology, industrially relevant mathematical models for governance, rendering cancer-cure more effective. Our centres of excellence, the Center for Innovation, Nirmaan – the pre-incubator, the Incubation Cell, technology centres such as 'IITM-Pravartak' and others, work in unison for not just our nation's building, but societies world-wide. We aspire to be locally impactful and globally relevant through all these efforts.

Towards exploring new research frontiers, a Department of Medical Sciences and Technology has been launched to conjoin medicine and engineering. Similarly, a School of Sustainability is on the horizon to research sustainable practices in the Global South. The campus is moving towards 'carbon-net-zero' goal through water conservation by 100% recycling, efficient garbage disposal, and electrification of vehicles. The traditional education system is undergoing a paradigm shift, with our online Bachelor of Science programme in Data Sciences and the National Program of Technology Enhanced Learning, that have won Gold in the 'Lifelong Learning' category and Silver in the 'Best Online Program' category of the Wharton-QS Reimagine Education Awards 2022 respectively. IIT Madras is leading this revolution from the front.

Such achievements are not possible without the deep-rooted faith and support of alumni and well-wishers such as yourself. We are indebted to you for your generous, bountiful, and impactful contributions. On behalf of IIT Madras, I offer you our deepest gratitude for continuing to strengthen the Institute. Together with your support, we are confident of building an IIT Madras that is more inclusive, diverse, and enabled by an ecosystem to be nationally relevant and globally recognised. Thank you!

Dean's Message

Prof. Mahesh Panchagnula
Dean, Alumni & Corporate Relations, IITM



Greetings!

I express my heartfelt gratitude to you for your generous support to IIT Madras. We appreciate your passion in supporting the causes you do and I assure you that your contributions will be optimally utilised.

This report has been compiled to convey how your largesse has touched lives and made a difference at IIT Madras. In keeping with the rapid, contemporary strides in science, technology we have set ambitious goals for ourselves - your continued enthusiasm and support will help us greatly in these endeavours.

IIT Madras is far more diverse in its set of pursuits, more green and more research-focused. And yet, it remains unchanged over these years, it is still the best Institute in the country, and attracts the best students that India has to offer to come and make a mark. I also cordially invite you to visit your campus to see for yourself, the impact of your contribution, and the growth and transformation the Institute has undergone over the years.

We can never express our gratitude enough for all that you have done - Thank You !



**"GIVING IS NOT JUST ABOUT
MAKING A DONATION -
IT'S ABOUT
MAKING A DIFFERENCE"**



Mr. Vijay Janapaty

[1995/BT/EE]

Mr. Vijay Janapaty graduated from IIT Madras as a B. Tech graduate in Electrical Engineering in 1995 and did his Masters in Electrical Engineering from Vanderbilt University in 1997. Also, he pursued his MBA in Finance from the University of California, Berkeley, Haas School of Business.

Mr. Vijay began his career as a product development engineer at LSI, an Avago Technologies Company which designs and sells semiconductors and software that accelerated storage and networking in data centres, mobile networks, and client computing. He held positions in product management, mergers and acquisitions, and engineering at LSI for a period of ten years. He then joined Broadcom Inc. (a global technology leader that designs, develops, and supplies a broad range of semiconductor and infrastructure software solutions) as Vice President of Marketing and Business Development. In 2020 he became the Vice President and General Manager of the Physical Layer Products Division.

Mr. Vijay is a skilled marketing professional who excels in product development, product engineering, and cross-functional leadership. He is good at strategic planning, providing actionable insights by leading strategic design, and executing user-centric research. He has great interests in product development and competitive analysis. People who are highly competitive typically persevere until they reach their desired goals, one such example is Mr. Vijay Janapaty.

EDUCATION TRAJECTORY:

1991-1995



Indian Institute of
Technology Madras
B.Tech - EE

1995-1997



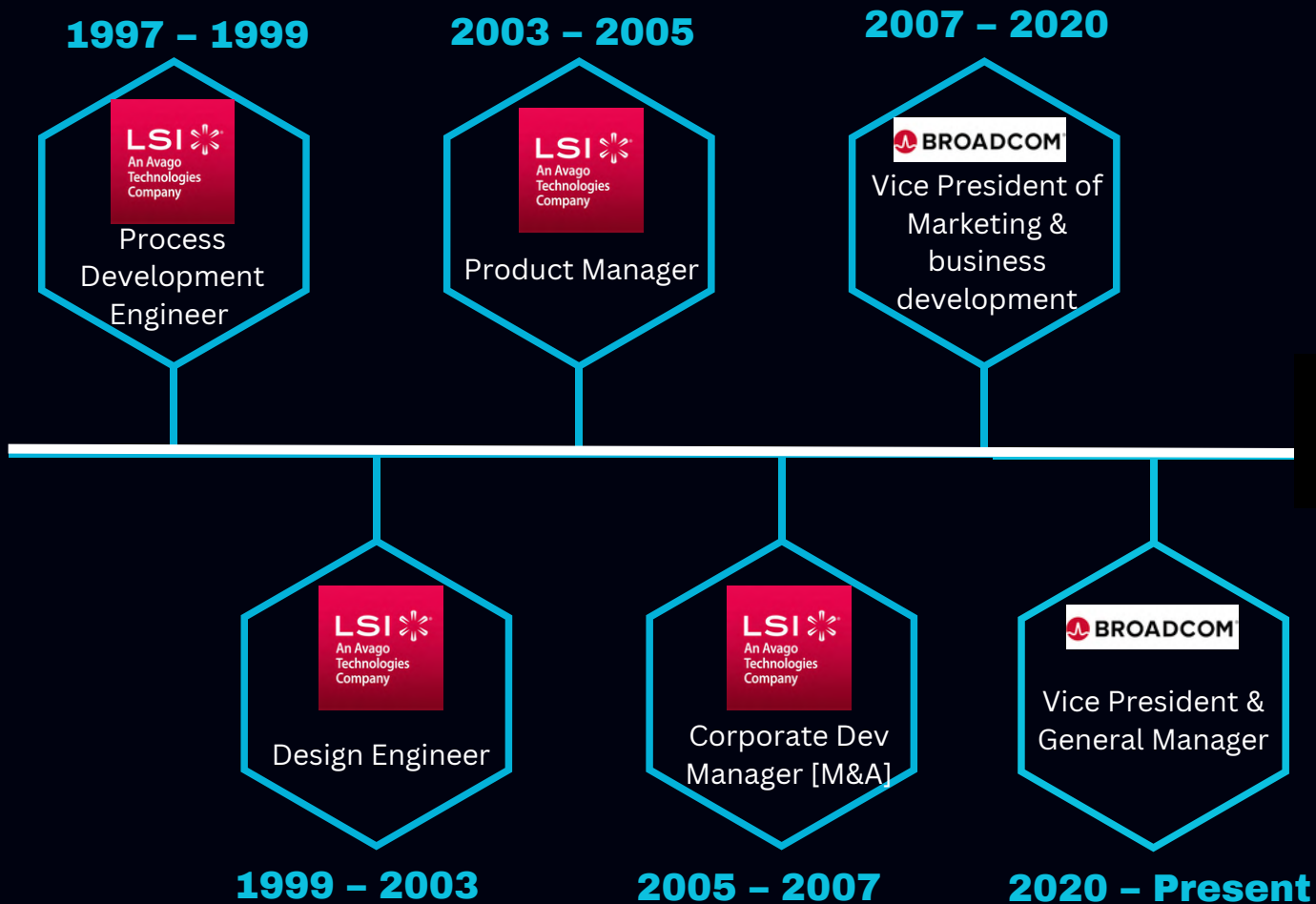
Vanderbilt University
MS - EE

2004-2007



University of
California, Berkeley
MBA - Finance

CAREER TRAJECTORY:



Women Leading IITM

COVID-19 Relief for India

YOUR COPIOUS CONTRIBUTIONS

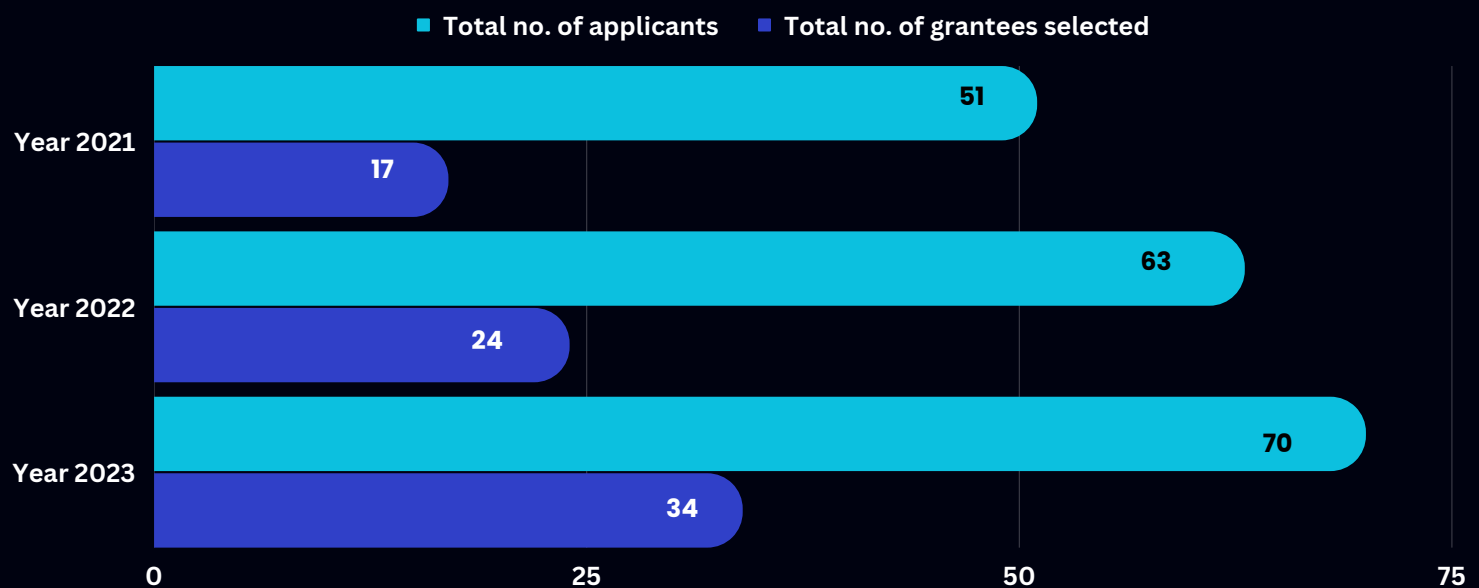
RF /Mixed-Signal Electronics for Spectrum Sensing

Saraswathi - Keep it Flowing

WOMEN LEADING IITM

Education is considered a milestone for women empowerment because it enables them to face various challenges, confront their traditional roles, and bring change to their lives.

IITM has made considerable progress in improving the number of women students/ faculty and creating opportunities for their success. IIT Madras launched the “Women Leading IITM” (WLI) program on March 8th, 2021, to uplift women’s leadership in science and technology. WLI is a program to nurture, develop and support women’s talent at IITM along with their study/professional careers



Statistics of WLI from 2021 – 2023

Some Achievements of WLI Grantees for the year 2022-2023



Ms. Vaishnavi S (Ph.D. Scholar, Dept of Biotechnology) received the Best Presentation Award at the 15th Asian Congress on Biotechnology Conference, Indonesia



Ms. Harija Harkumar (Ph.D. Scholar, Dept of Chemical Engineering) has won 1st prize in Student Presentation Award at the 15th International Conference on Sensing Technology, ICST'15, Australia.

Some of the Grantees of WLI 2023



AISHWARYA RAMESH
Ph.D Scholar
Dept of Management Studies

JESNA
Ph.D Scholar
Dept of Civil Engineering



AMBILI B
Ph.D Scholar
Dept of Civil Engineering

K LEENA
Ph.D Scholar
Dept of Biotechnology



ANBUTHANGAM A
Ph.D Scholar
*Dept of Metallurgical and
Materials Engineering*

SRILAKSHMI K
Ph.D Scholar
Dept of Ocean Engineering



To know more about the beneficiaries



COVID-19 RELIEF FOR INDIA

The COVID-19 pandemic became an emerging global health crisis and required the best of our efforts to overcome it. The sudden outbreak of pandemic had already created an enormous medical and financial burden shattering many lives.

The second wave of COVID-19 immensely affected the public's mental health and well-being in a variety of ways, including isolation and loneliness, job loss and financial instability, and illness and grief. Many organizations, institutions, and individuals came forward to support the nation both financially and socially.

IIT Madras launched a campaign to raise funds for supporting various causes. The Institute exceeded its goal of raising \$1 million in 48 hours. Overall IIT Madras Alumni and other well-wishers have come together and raised more than \$2 million.

Below are the causes for which the funds were used:

1. Purchase of Oxygen cylinders, BiPAP machines, Injections, and Medicines
2. Healthy meals for students who were stranded in the institute during covid.
3. Financial help to more than 150 Ph.D. scholars to pursue their research without any constraints.

Glimpses of the contributions:

- IIT Madras handed over **200 oxygen concentrators** to the **Government of Tamil Nadu**.



The handover was carried out in the presence of M A Siddique IAS, Principal Secretary, Government of Tamil Nadu and Meghanatha Reddy IAS, Deputy Commissioner (Works), Government of Tamil Nadu, Prof. Bhaskar Ramamurthi, Director, IIT Madras, Prof. Mahesh Panchagnula, Dean (ACR), N Alamelu, Secretary, IIT-M

- Donated BiPAP units, Injections and medicines.



Dr. Jane Prasad, Registrar, IIT Madras, and other officials handing over BiPAP units to Chennai Corporation Officials

- Contributed **200 oxygen concentrators** (10 litres each) to the **Government of Karnataka**.



Contribution of oxygen concentrators to the Government of Karnataka

- **Provided healthy meals to students** who were stranded during Covid pandemic with the help of a nutritionist. Arrangements were made to serve paneer, banana, and eggs as optional extras.



- Contributed **1000 units** of covid medicines to **Sri Venkateswara Institute of Medical Science (SVIMS), Chittoor**



Contribution of covid medicines to SVIMS, Chittoor



Meals provided to hostel students

- **Financial support was provided to Ph.D. scholars** as stipend. This helped them to carry out their research without hindrance.

Gratitude notes from some of the Ph.D. scholars



Ajay A P

"I wish to thank all the donors from the bottom of my heart. The relief provided helped me look after my family during that nightmare phase and thereby focus on my research more"

"I am really appreciative of the assistance received from my alumni during my most difficult time. I'm hoping that someday I'll be in a position to help out my fellow students"



Sunny Sharma



Bhadra Hrishikesh

"The pandemic was a tough period for all of us. And it is very stressful for scholars especially when they are on the final stage and the stipend period has ended. I am very grateful to the alumni and non alumni members who contributed in supporting scholars like me. You are inspiration to us by making us understand the importance of giving back to our community"

"I would like to express my sincere gratitude to all the alumni and non-alumni donors for generously donating towards the cause of Covid-19 relief with which we were supported with our stipend. I wish to prolong my appreciation to all who worked behind to make the entire process work smoothly. The financial support from you helped me greatly"



Dipanjan Majumdar



SARASWATHI – KEEP IT FLOWING

Renovation of Saraswathi Hostel:

Date of commencement of the work : 24-08-2022

Date of completion : 18-01-2023



S.No	Description of Work	Expected Date of Completion	Date of Completion
1.	Facelifting of restrooms	08-05-2023	18-01-2023
2.	Facelifting of corridors		
3.	External repair works		

Renovation of four restroom blocks, facelifting of corridors, and external repair works have all been completed and the hostel was handed over to the Office of Hostel Management on 18-01-2023.

Photographs of the renovation:

Corridor renovation:

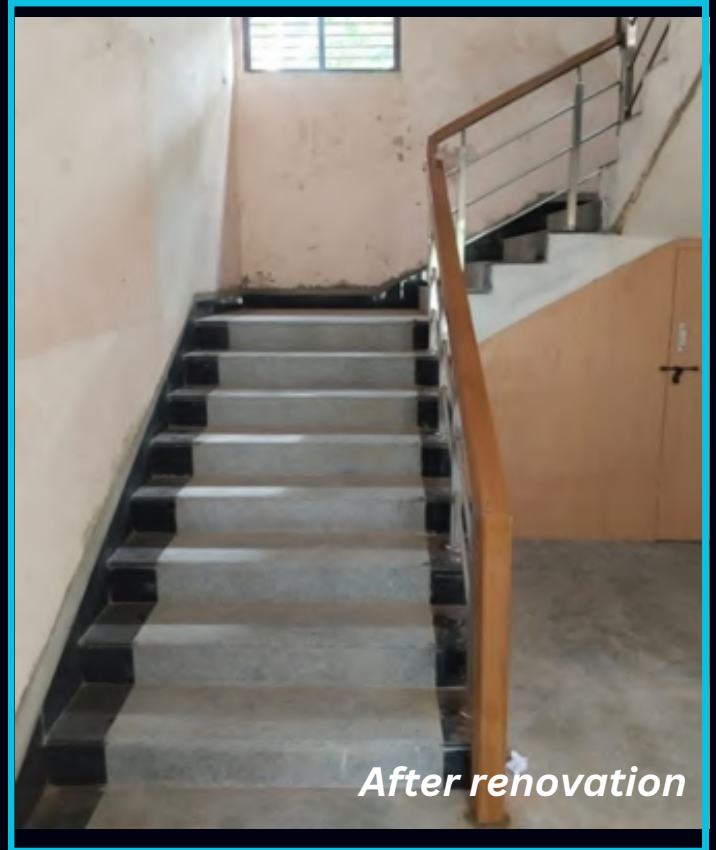


During renovation



After renovation

Staircase renovation:



Restroom renovation:





External renovation works:



RF/ MIXED-SIGNAL ELECTRONICS FOR SPECTRUM SENSING

The proposed spectrum sensor is based on a cross-correlation receiver. The main components of the system are the following:

- RF front-end comprising LNA, mixer, and baseband amplifiers
- Analog-to-digital converter
- Frequency synthesizer covering the desired frequency range

A system-level model is required to decide the specifications of the above components and calculate the trade-offs between component specifications, the dynamic range of spectrum sensing, and measurement time.

The current status of the project is as follows:

- System-level model: A model is developed from which we can estimate the measurement time and dynamic range based on component specifications. This model determines the front-end specifications such as linearity and noise.
- RF front-end IC: The design of LNA, mixer, and the first-stage baseband amplifier is complete. They are being integrated together.
- Analog-to-digital converter: The design is ongoing
- Frequency synthesizer: The design and layout of key building blocks such as the crystal oscillator, voltage-controlled oscillator, and frequency divider are complete. They will be integrated to obtain a 0.3 to 6 GHz frequency synthesizer.

We expect to tape out the first versions of all the above ICs by the end of 2023.

Planned activities for July-Dec. 2023:

- Complete the layout of the RF front-end, baseband circuitry, and the frequency synthesizer
- Tape out the building blocks.



We are grateful to you & your family

Mr. Vijay Janapaty

We express our heartfelt gratitude for your continued and generous support to IIT Madras throughout the years. We trust that you take great pride in your bond with IIT Madras and the unwavering dedication it has demonstrated towards academic and research excellence since the time of your association.

Your invaluable contributions, alongside the support of your family, have played a pivotal role in facilitating this remarkable growth. We are privileged to have you and your family walking with us along this journey. We extend our best wishes to you and your family. We thank you for your continued support to your alma mater.



Indian Institute of Technology Madras, Chennai – 600036
www.iitm.ac.in

For more information, please contact:
Office of Alumni and Corporate Relations
T: +91-44-2257 8390 | acr.iitm.ac.in



July 2023