



Manifestation
of
IEEE Uttar Pradesh Section
Young Professional Star Award
for the Month of November 2021



About Dr. Anand Sharma

Anand Sharma obtained Bachelor of Technology from Uttar Pradesh Technical University Lucknow in 2012, Master of Technology from Jaypee University of Engineering and Technology Guna in 2014, and Ph.D. in RF and Microwave from Indian Institute of Technology (ISM), Dhanbad in 2018. After that, he joined Government Engineering College Sonbhadra, U.P. as an Assistant Professor in Electronics Engineering Department and left the college in June 2019. Currently, he holds the position of Assistant Professor in the Department of Electronics and Communication Engineering, Motilal Nehru National Institute of Technology Allahabad,

Prayagraj, U.P., India. He has published more than 60 articles in the International Journal (SCI Indexed) and also presented more than 40 articles in National/International Conferences. His area of research includes MIMO Antennas, Antenna for IoT Applications, Circularly Polarized DRAs, Ultra Wideband and Super Wideband Antennas, Wearable Antennas, Antenna optimization using machine learning.

Dr. Sharma is working as an expert reviewer for several International Journal of repute such as IEEE Transactions on Antenna and Wave Propagation, IEEE Antenna and Wireless Propagation Letter, AEU-International Journal of Electronics and Communication Engineering, Microwave and Optical Technology Letter and so-on. He is also doing some research projects on antennas funded by SERB New Delhi, CST UP, MHRD New Delhi. His name is also included in the list of “World Ranking of Top 2% Scientists” in 2021 database created by Stanford University, USA, 2021

1. What are your words of motivation?

As I feel, there are two things by which you can get success: hard work and patience. When you do the research, most of the time you will not get the desired result. At that time, don't be disappoint. Keep trying. You will surely get the success. I always believe in the following quote: “Believe in yourself and all that you are. Know that there is something inside you that is greater than any obstacle”

2. What was the specific reason, if any, which made you, join IEEE?

First time, I have joined the IEEE as a student member during PhD from IIT(ISM), Dhanbad in 2014. My department (i.e. Electronics Engineering) at IIT(ISM) Dhanbad has a student branch chapter. There are lots of activities conducted by the student branch such as expert lectures from India and abroad. These activities were helped us to make the research collaboration with good research group. We got the fee concession to register in good conferences sponsored by IEEE. These were the reasons, which attracted me to join IEEE at that time.

3. As a Young Professional, how do you position your interest in your own field with the activities and services you perform as an IEEE member/volunteer?

I have joined the IEEE in 2014 as a student member. During PhD, I have done active volunteering in IEEE sponsored 2nd ICMAP-2016 organised by IIT(ISM) Dhanbad. After joining MNNIT Allahabad, I have taken the charge of IEEE student branch counsellor in 2020. As a convenor, I have organised several webinars, workshops under the flagship of IEEE. These are highly beneficial to the research students.

4. What are your thoughts about IEEE membership and its paybacks? Whether the IEEE membership benefited you at

any time in your career growth? If so, how?

In my opinion, IEEE membership is highly beneficial for the person who initially enters in research related activities. IEEE provides the different grants for supporting the PhD students having good research ideas. IEEE also provides the travel grant to attend different reputed conferences/workshops, which is also advantageous to improve the networking. IEEE also provides the grant for Humanitarian research project, which will helpful to enhance the professional growth. I got several benefit from IEEE membership such as get concession in registration fees in different reputed conferences as well as I can read some of the research article related to my field without any subscription.

5. As a Young Professional, what are the changes or developments you would like to see in evolving this professional body as a group devoted to humanity and its causes?

In my opinion, we should focus on organising the more number of workshops/training program/conferences related to newly developed technologies such as AI, IoT, 5G and beyond. The aim of such type of workshop/training program is designed in such a way that they will not only provide the introduction of such technologies, but also give some idea how one can use them for humanitarian development. More industry and academic

collaboration will also be helpful in the same direction.

6. What are your suggestions and recommendations for those young professionals who may aspire to join IEEE?

There are large numbers of benefits for joining IEEE as a young professional. First and most important one, it provides a great opportunity to increase our network with good research groups in our area. IEEE also provides the grant to different students at PhD and master's level in order to support their good research ideas. So, in my opinion, young professionals should join the IEEE as early as possible for boosting their career.

7. As a Young Professional and a young researcher in the field, how do you consider the prospects of scientific research in this field for the benefit of humanity?

With the help of scientific research, one can solve big problems of the world. For example, if we have a smart health care system, then we can efficiently stop the spreading of COVID-19. The concept of IoMT will help a lot in this area. In the similar manner, IEEE will help us to identify such real-time problems and also give ideas to solve them efficiently.

8. What is your recent exciting research work that may have significant societal impact?

Currently, I am working on efficient antenna design for 5G communication systems as well as for IoT applications. Such types of antennas have highly useful applications in smart city development. SERB, New Delhi and CST, UP have given the funding to solve the aforementioned research problem.

9. What's the advice you would give to a young professional who is just starting his/ her career?

In the starting phase of career, take more and more challenging tasks. As young professionals, we have a duty to give some fruitful things to the society. For that, we have to focus on the product development and finding out more and more societal problems. Currently, the government also gives more and more funding to the research ideas which have been focused on complete product development/system development. Another suggestion to young professionals is to target the reputed journals for publishing their research ideas. If you submitted your research articles to highly reputed journals of respective fields, then you will get to know the actual standards of your research work.

10. Anything else that you would like to add?

I would like to thank IEEE UP section to select me for IEEE UP Section Young Professional Star of the Month. It will highly motivate me for maintaining the high research standards as well as to contribute more for the society.