

BIOGRAPHY (BRIEF INFORMATION)



Dr. Raghu Chandra Garimella profile contains Bachelor of Technology (B.Tech.), Post-Graduation Diploma in Management (PGDM), Post-Graduation Advanced Diploma in Management (PGADM), Master of Technology (M.Tech.), Master of Business Administration (M.B.A.), Doctor of Philosophy (Ph.D.). He received B.Tech. (Electrical and Electronics Engineering) and M.Tech. (Power Electronics) degrees from JNT University Kakinada, India. **He was the university topper with about 84% during the M.Tech.** Further, he did PGDM, PGADM, and M.B.A. (Operations Management) degrees from Gandhi Institute of Technology and Management (GITAM) University, Visakhapatnam, India. Later, he completed a course entitled 'Electrical Engineering' from The University of New Castle, Australia, with 93%. He received **Ph.D. from National Institute of Technology (NIT) Karnataka, Surathkal**, for which he was being topped among the other research scholars with **CGPA 10 out of 10**. He did the research on seismic energy estimation of ground vibrations caused due to blasting operations based on signal processing approach and electrical power generation.

He has visited **China, Hong-Kong, Macau, and Nepal** for observing the research advancement. In addition, he had carried out research investigations in various states of India, which include Andhra Pradesh, Goa, Gujarat, Haryana, Karnakata, Kerala, Maharastra, New Delhi, Tamilnadu, Telangana, and Uttar Pradesh.

Two (02) Indian **R&D Projects of DST-SERB and BIRAC are in pipeline**. Title of the DST-SERB Project: ELECTRICAL ENERGY HARVESTING FROM VIBRATIONS – ASSESSMENT OF VIBRATION INTENSITY AND APPLICATION FOR LOW POWER SYSTEMS; Investigators: Dr. RAGHUCHANDRA GARIMELLA (PI), Dr. S. MOHAN KRISHNA (CO-PI); Funding Agency: DST – SERB, Scheme of Project: Core Research Grant; File Number: CRG/2020/001434, **Total Cost (INR): 71,38,450**. Title of the BIRAC Project: “MICROCONTROLLER BASED UV GERMICIDE WITH AIR PURIFIER”; Investigators: Dr. RAGHUCHANDRA GARIMELLA (PI), Dr. PRABHU G. BENAKOP (CO-PI); Funding Agency: Biotechnology Industry Research Assistance Council (BIRAC); Scheme of Project: Promoting Academic Research Conversion to Enterprise (PACE); File Number: BT/TEMP6419/PACE-21/20; **Total Cost (INR): 20,04,000**.

Three (03) Australian Patents have received the grant for the products:

“Portable Hybrid Power Bank”, IP Australia Batch Reference No.: SPBI-0002231714, Application No.: 2020100836, Granted on Jun. 17, 2020

(<https://patents.google.com/patent/AU2020100836A4/en?q=au2020100836a4>);

“Dronebot – A Hexacopter Based Personal Assistant”, IP Australia Batch Reference No.: SPBI-0002370253, Application No.: 2020102662, Granted on: Nov. 19, 2020

(<http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2020102662>);

“Sensor Operated Automatic Potion (S.O.A.P.) Dispenser”, IP Australia Batch Reference No.: SPBI-0002381137, Application No.: 2020102940, Granted on: Dec. 03, 2020

(<http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2020102940>).

Two (02) Indian Patents have published and one application was accepted for the grant based on the earlier research carried out, “*Tapping of Electricity from Ground Vibrations caused due to Blasting Operations in Mines and Quarries*”, Reference No.: E-12/94/2019/CHE, Application No.: 201941002334, Published on Jan. 25, 2019, Journal No.: 04/2019; “*Solar Powered Hybrid Energy Bank*”, Reference Nos.: E-12/707/2020/CHE & R20204008990, Application No.: 202041011952, Published on May 08, 2020, Journal No.: 19/2020. Two more product-based patents are in pipeline (Cost-effective Vibration Monitor (Seismograph) and Solar powered wireless portable mixer grinder).

He has published 1 Reference Book, 4 Book Chapters, 18 International Journals, 7 International Conferences, and 1 National Conference as on November 2020. Two (02) International Journal Papers, One (01) International Conference Paper, and One (01) TextBook Publication is in Pipeline. In addition, he has attended ten (10) Faculty Develop Programs/Workshops (FDP/WS) as on today. He bagged **Best IEEE Paper Award** for the research paper entitled “Signal processing computation based seismic energy estimation of blast-induced ground vibration waves” in IEEE – International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER) during Aug. 13-14, 2016 whose ISBN No.: 978-1-5090-1623-5/16.

He is serving as the **Editor-In-Chief** for Journal of Modeling, Analysis and Simulation (SCOPUS Indexed), Clausius Scientific Press Inc. Further, he is serving as an **Editorial Board Member** for various Journals, viz. IET – Signal Processing (SCI Indexed), IEEE Access (SCI Indexed), REM - International Engineering Journal (SCIE Indexed), Earthquake Engineering and Engineering Vibration Journal, Springer (SCIE Indexed), SCIREA Journal of Electrics, Communication, SCIREA Journal of Electrical Engineering, Science Research Association, American Journal of Electrical Power and Energy Systems (EPES), Science Publishing Group, Publons, Advances in Science, Technology and Engineering Systems Journal (ASTESJ), STM Journals, JournalsPub.

He possesses various memberships, viz. Professional Member – Institute for Engineering Research and Publication (PMIFERP), Senior Member – Universal Association of Computers and Electronics Engineers (SMUACEE), Member – The Institute of Research Engineers and Doctors (MtheIRED), Life Member – International Association of Engineers (LMIAENG), Invited Member – The Institute of Doctors, Engineers and Scientists (MIDES), Invited Member – The Association of Computer, Electronics and Electrical Engineers (MACEEE), Former Member – Society for Industrial and Applied Mathematics (MSIAM).

He had organized (as a Convener) the 2nd International Conference on Paradigms in Engineering and Technology (ICPET-2018) during Dec. 28-29, 2018 at Methodist College of Engineering and Technology, Abids, Hyderabad, India. He had served as a **Chair Person** for the conferences organized by McGraw-Hill Education and IDES during Jan. 20, 2018 and Dec. 28-29, 2018, respectively.

He had served as a **Resource Person** for a Guest Lecture on **INTELLECTUAL PROPERTY RIGHTS AND PATENTS** during Sept. 04, 2020, at Telangana Social Welfare Residential Degree College for Women, Warangal, East Jangaon, Telangana, India. He also had served as a **Resource Person** for a Students’ Workshop on **Patent – A pathway to earn from your ideas** during Sept. 16, 2019, at Indian Institute of Management and Commerce, Hyderabad, Telangana, India. In addition, he had served as a **Chief Guest of Honour (Resource Person)** for UGC Sponsored National Workshop on **Intellectual Property Rights** during Mar. 13-14, 2019, at DNR College (Autonomous), Bhimavaram, Andhra Pradesh, India.

He was invited for an **FM Radio Interview on Intellectual Property Rights and Protection** during Mar. 13, 2019. The program was broadcasted on Mar. 15, 2019 between 4.30 PM and 5.30 PM in **Radio Vishnu 90.4 CR**.

Currently, he is working as an **Associate Professor** in the **Department of Electrical and Electronics Engineering; Head/Coordinator, Innovations & Entrepreneur Development Cell (IEDC); Member, Internal Quality Assurance Cell (IQAC); Member, R&D Cell; Member, Industry Institute Interaction Cell (IIIC)**, Methodist College of Engineering and Technology (Osmania University), Abids. **Earlier**, he had worked in Madanapalle Institute of Technology & Science (UGC-Autonomous), Madanapalle; National Institute of Technology Karnataka, Surathkal; Rajahmahendri Institute of Engineering & Technology (JNTU Kakinada), Rajahmundry; and KIMS College of Engineering (Adhoc Position, Andhra University), Amalapuram.

His areas of interest include Innovative Teaching, Design Thinking, Creative Learning, Renewable Power Generation, Ground Vibrations, Signal Processing Techniques, Seismic waves, Rock Blasting Mechanisms, Numerical Modelling (preferably 3D), and Power Electronic Drives.

He is serving as a mentor for filing Patents and IPR protection to various academic institutions located in India.

He is very much interested in learning about new software developments. In addition to the above, he is having a vast computer operating skills (**deletion of a virus without using any anti-virus program is an additional hobby**).