

R. KIRAN KUMAR REDDY

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Career Objective:

To acquire a challenging position and to utilize my skills and abilities in the field of research and development that offers professional growth while being innovative.

Educational Qualifications:

- M.Tech(Nano Technology and Nano Electronics):2016-2018, Jawaharlal Nehru Technological University, Hyderabad(with 9.86 CGPA)
- B.Tech(Electronics and Communication Engineering): 2011-2015, CVSR School of Engineering,78.27%
- Intermediate: 2009-2011, Sri Chaitanya Jr. College, 95.4%
- S.S.C:2009, Bhashyam Public School, 93%

Programming Skills:

- Matlab, Argus lab, image j, Xpert high score plus and Origin software
- Cadence, Keil, Multisim
- C-language and Java

English Proficiency: Good in English both written and verbal.

IELTS Score: 6.5/10 points

Areas of Interest:

Interested in the areas of developing electrochemical energy storage systems(batteries and supercapacitors) using carbon-based composite materials and cells, Thin film deposition techniques, nanocircuits and water treatment for hydrogen evolution, satellite communication systems, signals, and image processing.

Instrumentation Experience:

I have experience in handling the instruments such a Particle Size Analyzer, UV Double Beam Spectrophotometer, Fluoride testing meter, Ball milling, spin coating and spray pyrolysis instrument and FTIR spectrophotometer and Thermogravimetry and Differential thermal analysis, Fourier Transform Infrared Spectrophotometer, Autolab for supercapacitor and battery applications and gas sensor equipments.

Work Experience:

I had done a one-year internship in Nanospan India Pvt. Ltd, Patancheru Hyderabad. During this internship period, I worked on synthesizing graphene in bulk range using a specialized vacuum reactor. I also learned the fabrication of supercapacitors and batteries using Graphene-based

composite materials. I also worked on the deposition of nanomaterials using Pulsed Laser and Chemical Vapor Deposition techniques on different substrates.

Publications:

- Co-author in “Conductive Polyaniline Nanosheets (CPANINS) for a non-enzymatic glucose sensor” published in Materials Letters-Elsevier.
- Published a book chapter on “Graphene/Molybdenum Oxide/Polyaniline nanocomposite as an electrode for supercapacitor application: Synthesis and Electrochemical Properties” in Lambert Book Publishing with ISBN: 978-613-9-45685-7.
- “Hydrothermal Synthesis of 1-D Molybdenum Oxide nanorods for high-performance Supercapacitor applications” submitted to Journal of Applied Physics (Springer) - under Review.
- “Polyaniline based Graphene/Molybdenum Oxide nanostructures for Supercapacitor Application” submitted to Journal of Applied Electrochemistry (Springer) - under Review.

Conferences attended:

- Attended **GIAN** program on “**Energy materials and Innovative Challenges in its Applications**” conducted by JNTU Hyderabad during October 2018.
- Presented paper on “**PANI Molybdenum Oxide nanoparticles for supercapacitor applications**” in “**International Conference on Nano Science and Engineering Applications-2018.**”
- Attended and presented a paper in “**International Conference on Renewable Energy Research and Education-2018**” conducted by **Conn Center for Renewable Energy Research, University of Louisville, KY, the USA** in Rajahmundry.
- Attended a conference on “**Bringing the Nanoworld together-2017**” conducted by **Oxford instruments** in Central University, Hyderabad.

Personal Skills:

- Ability to work with a team or as a single
- Good at problem-solving
- Ability to learn and adapt quickly

Extracurricular Activities:

- Served as a member of the organizing committee during ICONSEA 2018.
- Served as a co-coordinator for Robotics during National level technical fest “AAGAMA-2K13”, A National level student technical fest.
- Served as a head co-coordinator for Robotics during National level technical fest “AAGAMA-2K14”, A National level student technical fest.
- Participated in National level Robotics fest conducted by IIT Bombay.

Achievements:

- I stood as University Topper from Jawaharlal Nehru Technological University, Hyderabad during my M.Tech.
- Won Best poster presentation for the topic **“PANI Molybdenum Oxide nanoparticles for supercapacitor applications”** during ICONSEA 2018.
- I stood as a runner-up in a technical quiz event conducted under CYGNUS.
- I stood as a college topper during my B.tech.

Project: My B-Tech project is on **“Omnidirectional Robot using Ultrasonic sensor”** and **“Solar Tracker”**.

My M-Tech project is developing **“Graphene-Molybdenum Oxide-PANI ternary nanocomposite material”** for supercapacitor applications.

Strength:

- Can adapt to any kind of environment
- Self-confident and self-motivation

Personal Profile:

Name: R. Kiran Kumar Reddy

Father's Name: R. Balakrishna Reddy

Mother's Name: R. Swarna

Date of Birth: 03.04.1994

Languages knew: Telugu, English, Hindi

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Road no: 3,
KPHB, Hyderabad-500076.

Declaration:

I hereby declare that the above particulars are true and correct to the best of my knowledge and belief and in the event of any information being found false or incorrect, my candidature will be liable to be cancelled.