Centre/School/Special Centre : School of Engg. & Technology

Department: Electrical Engineering (ECE)

Phone: 9935389318

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Personal Webpage Link :

Qualifications: PG (B.Tech, M-tech (Dual) Degree, Dept. of Electrical Engg., IIT Kanpur)

Area of Interest/Specialization: Computer Vision & Applied AI, **Robotics**, Digital Signal Processing and Intelligent Automation & Multi-Media Applications.

Experience:

2019- Present	**Assistant Professor- Electrical Engineering**, Dept. of Electronics & Comm. Engineering, School of Engineering &Technology, Guru Ghasidas Vishwavidyalaya, Bilaspur, (C.G.) India.
2010-2019	**Founder & MD, (R&D) at Innosium Technologies Pvt Ltd. Kanpur**, incubated in **SIIC, IIT Kanpur**. It was a high-end technology-based venture where I led the team from ideation to implementation of various innovative products. Also provided R&D consultancies to reputed companies and research projects of IIT Kanpur. Let team to receive DST fund twice and won various events, a few mentionationable are selected for top 50 startups for Digital India, Intel-DST challenge 2015. Represented Innosium and IIT Kanpur in Telecom Expo 2013 Vigyan Bhawan, Delhi and India- U.S. Technology Summit & Knowledge-Expo 2014 at Greater Noida, Delhi NCR.
2009-2010	Sr. Project Associate at Computer Vision Lab, Dept. of Electrical Engineering, IIT Kanpur.
2004-2005	Fine Arts Club Coordinator, Students' Gymkhana at IIT Kanpur. Initiated Annual Art Exhibition.

Awards and Honors

Technical	
Aug-2015	Selected for Top50 Startups in Digital India (Intel-DST challenge) 2015.
Feb- 2011	Won IDEAS, A National Level Business Plan Contest in Techkriti(INR 75000/-).
Feb-2010	Won First Prize in Endeavour (Asia Largest Working Model Contest cum Exhibition and judged by six different domain experts) in Techkriti, annual technology & entrepreneurship festival of IIT Kanpur. (INR 35000/-).
Feb-2009	Won Second Prize in Endeavour in Techkriti at IIT Kanpur.
May-2009	**Convocation Award- IIT Kanpur** Excellence Award in Art & Cultural Activities.
Mar-2008	Won first prize in IDEAS in Megabucks, largest national level business plan contest among Indian college festivals. (Prize INR : 100000/- with incubation worth 20 lacs.)
Feb-2008	Won First Prize in Endeavour in Techkriti at IIT Kanpur.
Feb-2006	Best Innovation Prize in GrearLoose in Techkriti.
Feb-2003	First Prize in Nirman (On the Spot Bridge Making Contest) in Techkriti.
	Non-Technical(Cultural)
Nov-2006	Best Candle Carving in Manjari (Fine Arts) Contest in Antaragni, annual cultural festival of IIT Kanpur. Led the winning team of six members (First Prize) in Manjari.
Nov-2006	Won First prize in Sketching Contest in Antaragni at IIT Kanpur.
Nov-2005	Led the winning team, First position in Veethi(Fine Arts Event) in Antaragni.
Nov-2004	Won Second Prize in Clay Modelling in Antaragni at IIT Kanpur.
Nov-2004	Won Second Prize in Canvas Painting in Antaragni at IIT Kanpur.
Jun-2002	First Prize in on the spot Slogan Writing by Chhattisgarh Tourism Dept., held at Bilaspur, C.G. India.

Sept-2000	First Prize in Painting in Bhopal, organized by LIC Bhopal M.P. India.
1991-2001	Won first prize more than 50 contests in various activities (major in Fine Arts and Science Modelmaking in school days).

Research Projects:

2017-2018	Grant by **DSIR, Govt. of India, projec**t entitled "Automated Universal Perfect Spherical Shape Making Machine for Eatables". Total project cost **INR 22.285 lakhs.**
2012-2013	**Smart Vest Data Analyzer (SVDA),** Software developed for live data with analysis, filtering features for multi-channel ECG, Blood Pressure, Body Temperature and Heart Rate along with automatic PDF report generation with user details log. Done as research consultancy project to a Textile Company Kanpur (Weaves brand and turnover 7000 cr). Successfully hand over to the client for the assigned portion of the project. Total project cost was around **INR.4 crores.** at the client end.
2009-2018	NUI project-: **Natural User Interface (NUI) Development at Innosium Technologies Pvt Ltd.(Incubated at SIIC IIT kanpur) Seed fund of INR 25 lakhs** sectioned for this project by DST. We have developed various innovative products based on computer vision and AI; our indigenous algorithms are capable of real-time processing with accuracy in a real world environment, which current state of art lags to perform with accuracy. Final tuning is in progress and soon will be released for pilot testing to the market.
2007-2008	**Master Thesis Project:** Development of A Search Capable Automatic Book Scanner Machine. Functional automatic book scanner was developed as a prototype and received many awards for it. (**mentinable Prize money 35000/- and 1.5 lakhs)**
2003-2007	(During graduation)Remote 3D viewer for BARC (Total Project cost inr 20 lakhs), 3D Scanner, 3D Printing and Precision Rotary Table and many minor projects are developed as prototype and used for research work setup at CV Lab IIT Kanpur

International Collaboration/Consultancy: Nil

Best Peer Reviewed Publication (up-to 10): Nil

Recent Books/Book Chapters/Monographs etc.: Nil

Research Supervision: Nil

Administrative Responsibilities:

Additional Information: