Name:
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Awards:
India Council Outstanding Industry Award: IEEE IC Technology Start-up of the Year 2020
Brief Bio:

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Professor J. Ramkumar is currently a Professor in the Department of Mechanical Engineering and Design Program at Indian Institute of Technology (IIT) Kanpur. He joined as an Assistant Professor in the Department of Mechanical Engineering in Dec 2003. He earned his doctorate in Mechanical Engineering from Indian Institute of Technology Madras, Chennai. His research concentrated on micro and nano machining and finishing. He has also worked on Tribology, Coatings and corrosion for both engineering and bio medical applications. Before joining IIT Kanpur, after his B. Tech. from NIT Trichy, he joined MICO-BOSCH as a Technical graduate trainee. He pursued his post-doctoral research in the area of intermetallic composites machining and fabrication at Osaka University, Japan. He is recipient of several fellowships such as Young Engineer award of ISAC, India and Gopal Das Bhandari Best teacher Award, by IIT Kanpur, recently honored with "Eminent Engineer award" from IEI, India and Young Alumni Achiever Award from NIT Trichy, and many more. He has published over 250 articles in the peer-reviewed international journals and has delivered over 90 lectures in the international conferences. His has 3000 citations for his publications and his h-index of 27, which endorses his high research productivity. His five patents are commercialized, total number of patents in his name being 74. He has procured a funding of over US $ 5 million during his career at IIT Kanpur Currently, and is the Project Investigator of MedTech facility being developed in IIT Kanpur, funded by BIRAC, DBT, India. He is reviewer of over twenty-five technical journals from Elsevier, Blackwell Publishing Inc., Wiley, Springer, Hindawi, Highwire, MRS India/INSA, ACS Publications, Institution of Civil Engineers and American Society of Metals.

Achievement for which the award was given:

Co-founded in 2017, McGeeks Mechatronics is being nurtured by SIIC, IIT Kanpur and is currently being mentored by me, and has grown to a turnover of around 50 lacs. It leverages leading-edge technologies such as AI, machine learning & deep learning in our products to make them extremely efficient and optimized. McGeeks builds machines to invigorate, nurture and embolden an engineer while unbridling the designer's freedom to create. It brings about conjunction between additive and subtractive manufacturing techniques. The guidance provided by me over the years through manufacturing and technical development has helped McGeeks command technical strength and expertise over the field. My team of engineers strive every day to refine the shape of the

manufacturing industry, lesser the burden of capital costs of machinery and increase user-friendliness of additive manufacturing. A few of the products developed (many of them during COVID-19 period) are: McGeeks reusable face shield, McGeeks REtO 1.0, Room Disinfectant, SHUDH (Smartphone operated Handy Ultraviolet Disinfection Helper), UV Corona Box, Self-sanitizing gloves, and McGeeks dental implant.