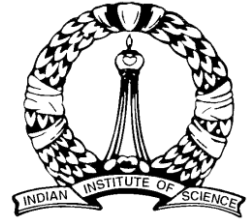


Tarun Kumar

PhD Research Scholar,
Centre for Product Design and Manufacturing (CPDM),
Indian Institute of Science (IISc.) Bangalore, 560012
Karnataka, India



Website: tarunkumar@strikingly.com

Phone: +91- 9483742547

LinkedIn: <https://www.linkedin.com/in/tarunkumarcpdm>

Email: tarunator1@gmail.com

tarunkumar@iisc.ac.in

Academic Qualifications:

	Exam/ Degree	Board/University	Period	% of marks/Grade
1	PhD. (pursuing)	Centre for Product Design and Manufacturing, Indian Institute of Science, Bangalore	2014 – 2020 (Expected)	CGPA 8.0 (out of 8.0)
2	M. Des.	Centre for Product Design and Manufacturing, Indian Institute of Science, Bangalore	2012-2014	CGPA 6.5 (out of 8.0)
3	B. Arch.	School of Planning and Architecture, New Delhi	2007-2012	70 % First Class with Distinction
4	HSC (12 th)	Central Board of Secondary Education (CBSE)	2006	91% (School Topper)
5	SSLC (10 th)	Central Board of Secondary Education (CBSE)	2004	96.4 % (Board Merit Certificate)

Work Experience

Position Held	Name of Institute	Period	Work/Responsibility
Architectural Trainee	SPA Consultancy, New Delhi	Feb 2011 – July 2011	1. Sustainable Campus Planning Issues (Preparing Design Program Specifications for IIT Rajasthan at Jodhpur) 2. Health Facilities Planning and Design 3. Housing, Shopping Complex, Gym and Cafeteria (Project Report for Delhi Cantonment Board)

Awards/Prize/Certificate etc. won :

- Young India Fellowship Award 2012
- Ved Prakash Memorial Award 2011 for being the topper of fourth year, School of Planning and Architecture, New Delhi
- Gate Rank All India Rank 21 (2011)
- Student of the year 2011 (SPA, New Delhi)
- reached till Civil services mains (UPSC IAS) exam 2012
- J.C Bose Young scientist Scholarship
- AIEEE All India Rank 401 (Paper 2)
- Brother Peter Memorial Award 2006: Topper of Biology and Chemistry, Loyola High School
- Brother Thomas Madapallikunnel Memorial Award for securing highest marks in class 12th
- Brother Peter Memorial Award 2004: Topper of Mathematics, Science and Social Science
- Mrs. Penamma John Cheriampampil Memorial Award: Highest marks in class 10th Exam
- CBSE merit certificate holder for Mathematics and science (100% in Maths and 99% in science)
- National children's science congress 2002

Publications

- **Conference Paper (accepted):** Kumar T., Rao R.R., Ramamurthy P, Mani M (2018). Safety of Light Emitting Diode (LED) based Domestic Lighting: Rural Context, Indicon 2018, IEEE Explore
- **Book Chapter:** Kumar T., & Mani M. (2017). **An energy-neutrality based evaluation into the effectiveness of occupancy sensors in buildings: An integrated life-cycle study.** In *Design to Thrive Proceedings PLEA 2017* (Vol. 2, pp. 2579–2586). NCEUB 2017.
- **Book Chapter:** Kumar T., Mani M. (2017) **Life Cycle Assessment (LCA) to Assess Energy Neutrality in Occupancy Sensors.** In: Chakrabarti A., Chakrabarti D. (Eds) *Research into Design for Communities, Volume 2. ICoRD 2017. Smart Innovation, Systems and Technologies*, vol 66. Springer Nature, Singapore, DOI: 10.1007/978-981-10-3521-0_9
- **Book Chapter:** Kumar T., Kapadia I., Gurtoo A., Mani M. (2015) **Development of Self Defence Devices for Women.** In: Mani M., Kandachar P. (Eds) *Design for Sustainable Well-Being and Empowerment: Selected Papers*, IISc Press- TU Delft, ISBN 9789461863454 (TU Delft), 9788192570716 (IISc Press)
- **Conference Paper:** Kumar T., Mani M. (2015) **Evaluating the effectiveness of occupancy sensors in net energy conservation: An integrated building life-cycle energy study.** International Conference on Life Cycle Management (ILCM) 2015, FICCI House, New Delhi
- **Poster Presentation:** Kumar T., Kapadia I., Gurtoo A., Mani M. (2015) **Development of Self Defence Devices for Women. Design for Sustainable Well-Being and Empowerment** (International Conference) 12-14 June 2015, IISc Bangalore
- **Poster Presentation:** Kumar T., Mani M. (2017) **Energy Neutrality of Occupancy Sensors: A Building integrated Life-Cycle Energy Study**, Inclusive Manufacturing Forum 2017, 6-8 April 2017, National Institute of Advanced Studies(NIAS), Bangalore, India

Other Achievements

- **Best Poster Award for Socio-Economic Life-Cycle Assessment (SLCA) of Street Children in India: A Framework Analysing Causal Factors and Plausible Solutions for their Dismal Living Condition** at *ILCM 2017*
- Jury Member at UNBIND Design Hackathon 2017
- CPDM Student Research Seminar series 2017, Co-ordinator
- Research Student Representative, Departmental Curriculum committee, CPDM, IISc 2015-2016
- Delivered Guest lecture on Creativity in Design and Research at MSRIT, Bangalore(2015)
- Jury Member at Technology Festival Srishti 2016 CMRIT, Bangalore
- Elected **General Secretary**, Gymkhana, Indian Institute of Science, Bangalore
- Lead the Scholarship Hike Movement 2015
- Convenor of IISc Fashion Design Team 2013, 2014, 2015
- Member of Steering Committee, IISc Students' Council 2015
- Convenor of IISc Cultural Fest Spectrum 2014
- Web Design Committee, IISc Students' Council 2013
- Media Committee, IISc Students' Council 2013
- Design Team of Samanway (IISc Career Fair) 2012
- Placement Coordinator at School of Planning and Architecture 2012
- Played Lead Role in Play 'Court Martial' 2008

Professional Skills

- Designing, Drawing, Research, 3D Modelling, Architecture, Management, Fashion Design, Technical Writing, Teaching, New Product Development

Research Interests:

- Lifecycle assessment studies, PLM, Interior Design, Product Design, Photovoltaics, Hospitals and Biomedical Design, Building design, City Planning, Urban design, Product engineering.
- Biomimcry, Design Research, TRIZ methodology, Systems Theory, Game Theory and its different applications, Building Physics and Building Simulation studies, Vernacular Typologies of Architecture

Tools

- GaBi 6, SimaPro, AutoCAD, Revit Architecture, MS office Suite, Adobe Photoshop, Adobe Illustrator, ArchiCad, Catia, Google Sketchup, Solidworks, Autodesk Alias Automotive, SPSS Analysis Package

Summary

- Pursuing PhD from Centre for Product Design & Manufacturing, IISc Bangalore [2014 – 2019, Expected]
- Master in Design (M.Des.) from Centre for Product Design & Manufacturing, IISc Bangalore [2012 – 2014]
- Pursued 'New Product Development' Course from IIM Bangalore under Student Exchange Program [2013]
- B. Arch from School of Planning & Architecture (SPA), New Delhi [2007 - 2012]