



# Sanjeev Krishnan R.

Student | Aspiring Building Scientist

[sanjeev.krishnan.r@gmail.com](mailto:sanjeev.krishnan.r@gmail.com)

+91 8148095505

Chennai 600064, India

## PROFILE

Architecture undergraduate studying at IIT Roorkee with special interest on energy efficiency, Net Zero Energy-Water-Waste building technologies, building automation and architectural robotics.

A self-motivated, creative, technophilic individual internally driven to learn, design and develop new things. A person who always stays cheerful and positive and has good leadership qualities with high solidarity.

[Portfolio Website](#)

[sanjeevkrishnan.xyz](http://sanjeevkrishnan.xyz)

[LinkedIn](#)

[linkedin.com/in/rsanjeevk](https://linkedin.com/in/rsanjeevk)

[GitHub](#)

[github.com/SanjeevKrishnan](https://github.com/SanjeevKrishnan)

## EDUCATION

### Bachelor of Architecture

[Indian Institute of Technology Roorkee](#)  
2018-23 | CGPA 7.454 (Spring 2020-21)

### Twelfth Grade

[Maharishi Vidya Mandir, Chennai](#)  
2018 | PCM + Computer Science | CBSE | 95 %

### Tenth Grade

[Sreevatsa Viswanathan Vivekananda Vidyalaya, Chennai](#)  
2016 | Maths + Science | CBSE | CGPA 10.0

## INTERNSHIP

### Summer Internship

[NPTEL IIT Madras](#) June - July, 2021  
• Underwent a two-month research internship offered by NPTEL IIT Madras in the domain of Building Science.  
• Researched about the basic principles of building science and its applications in buildings.  
• Learnt and experimented with the practical impacts of building science through software simulations and my experiments were documented as youtube video series.

### Research Internship

[IIT Roorkee](#) May, 2019  
• Underwent one-month research internship under the guidance of Prof.Dr.Rajasekar E., Department of Architecture and Planning, IIT Roorkee.  
• Worked on an academic research project - “Development of Wearable Device to Assess Thermal Comfort” that is currently under patenting process.  
• Designed and developed data logging modules for measuring humidity and air temperature

## SKILLS

### Industry Knowledge

Architectural Design Energy-Efficient Building Technology Automation  
Artificial Intelligence IoT

### Tools & Technologies

AutoCAD Revit Grasshopper 3D Gh-Ladybug&Honeybee SimScale  
Arduino RaspberryPi Tensorflow Dialogflow Git openCV Pandas numpy

### Computer Languages

Python C/C++ HTML CSS Javascript

### Languages

Tamil (native) English (proficient) Hindi(proficient)



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## ACHIEVEMENTS

- Finalists of Solar Decathlon India 2020-21. Shortlisted in Top 6 under Office Building Division.
- Represented IIT Roorkee in Inter IIT Tech Meet 8.0 in the event Engineer's Conclave. Our Contingent was the Overall Winner of Inter IIT Tech Meet 8.0.
- Semi-finalists in India Innovation Challenge Design Contest 2019 by Texas Instruments. Project ROTF was presented by our team.
- Secured Top 1% rank with a consolidated score of 100% in the NPTEL Online Certification Course "Principles and Applications of Building Science" offered by IIT Roorkee.

## SOFT SKILLS

Team work	● ● ● ● ●
Communication	● ● ● ● ●
Creative	● ● ● ● ●
Management	● ● ● ● ●
Leadership	● ● ● ● ●

## NOTABLE PROJECTS

### NetZero Building Design

Architecture | Solar Decathlon India

Sep 2020 - Apr 2021

- Aim is to propose a cost-effective, scalable, NetZero Office Building Design solution to our client, Infosys Mohali, for their phase II extension.
- Worked on innovation in building automation, Engineering systems, scalability and affordability.
- Proposed AI based sensor-less Building Automation system and thermal comfort monitoring system.
- Got into Grand Finale of the first-ever Solar Decathlon India

### Bus Terminus Redesign

Architecture | NASA India-ANDC 2020-21

Jun 2020 - Sep 2020

- Aim is to understand and analyse pre and post-pandemic effects on mobility spaces and its stakeholders, and redesign an existing bus terminus to implement the learnings.
- Researched about effects of pandemic in passenger flow and worked on spatial planning and 3D modelling.

### Restaurant of the Future

Robotics | IIT Roorkee

Jan 2020 - Apr 2020

- Aim is to design a robot that can replace waiters in restaurants.
- Worked on implementing natural language processing(NLP) to replicate typical human-human interaction.
- Achieved successful conversations nine out of ten times during the test phase.

### Chitrak - Quadruped Bot

Robotics | IIT Roorkee

Aug 2019 - Oct 2019

- Aimed is to design a power-efficient and cost-effective quadruped robot.
- Used spline for trajectory planning for smooth motion, tested trot gait cycle and creep gait cycle for its movement.

## EXTRA CURRICULAR

### Additional Secretary

Models and Robotics Section, IIT Roorkee

May 2019 - Present

Worked on three core team research projects, mentored two core team research projects and four open projects. Managed Industrial relations.

### Manager - R&D Connect

Students' Technical Council, IIT Roorkee

Jan 2020 - May 2020

Worked on initiating the process of setting up Industrial R&D laboratories in IIT Roorkee.

### Volunteer

National Service Scheme, IIT Roorkee

Jul 2018 - Present

Volunteered in providing primary education to surrounding village children. Worked in Blood Donation Camp 2018.