



Sanjeev Krishnan R.

Student | Aspiring Building Scientist

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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.github.io

[LinkedIn](#)

linkedin.com/in/rsanjeevk

[GitHub](#)

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.