



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 with good leadership qualities with high solidarity.

🌐 [Portfolio Website](#)

sanjeevkrishnan.github.io

in [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.
- Did an extensive research about the basic principles of building science and its applications.
- Experimented with the practical impacts of building science through software simulations and documented them 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 Asses 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 of India Innovation Challenge Design Contest (IICDC) 2019 by Texas Instruments.
- 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	● ● ● ● ●
Creativity	● ● ● ● ●
Management	● ● ● ● ●
Leadership	● ● ● ● ●

NOTABLE PROJECTS

NetZero Building Design

Architecture | [Solar Decathlon India](#)

Sep 2020 - Apr 2021

- Proposed a cost-effective, scalable, NetZero Office Building Design solution for phase II extension of Infosys Mohali.
- Worked on innovation in building automation, engineering systems, scalability and affordability.
- Pitched AI based Sensor-less Building Automation System and thermal comfort monitoring system.
- Competed amongst top 6 finalists of the first-ever Solar Decathlon India

Bus Terminus Redesign

Architecture | [NASA India-ANDC 2020-21](#)

Jun 2020 - Sep 2020

- Researched and analysed about pre and post-pandemic effects on mobility spaces and its stakeholders, and redesigned the existing Haridwar Interstate Bus Terminus.
- Actively learned about the 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

- Developed a robot that can replace waiters in restaurants.
- Worked on implementing natural language processing(NLP) to create a chatbot that replicates typical human-human interaction.
- Achieved a success rate of 90% in conversations during the test phase.

Chittrak - Quadruped Bot

Robotics | [IIT Roorkee](#)

Aug 2019 - Oct 2019

- Designed a power-efficient and cost-effective quadruped robot.
- Implemented spline algorithm in 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

Contributed to three core team research projects, mentored two core team research projects and four open projects. Currently managing Industrial relations.

Manager - R&D Connect

[Students' Technical Council, IIT Roorkee](#)

Jan 2020 - May 2020

Initiated collaboration between IIT Roorkee and Industries to endow R&D laboratories in various departments.

Volunteer

[National Service Scheme, IIT Roorkee](#)

Jul 2018 - Present

Participated in primary education campaigns conducted in nearby villages to create awareness. Took part in Blood Donation Camp 2018 organized by NSS IIT Roorkee.