

Sooraj Nhaloor

Master of Science in Physics

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+91-9645532937

Nationality: Indian

Research interests

2D materials, Nanosensors, and Particle physics

Education

- | | |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2021 – Present | Indira Gandhi National Tribal University – Madhyapradesh, India
Master of Science in Physics |
| 2018 – 2020 | Majilis Arts and Science College – Puramannur, Kerala
<i>Affiliated to University of Calicut</i>
Bachelor of Science in Physics
CGPA: 4.14/6.00 |
| 2016 – 2018 | Govt. Higher Secondary School – Pulamanthole, Kerala
Higher Secondary Education – Physics , Chemistry , Maths as major subjects
Grade: 87.25% |
| 2016 – 2018 | Govt. Higher Secondary School – Pulamanthole, Kerala
Secondary Education
Grade: 97.78% |

Mentorship and service

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| 2018 – 2021 | Nalanda Tution Centre (Part-time Tutor)
Tutored high school students in mathematics and physics. Developed lesson plans and teaching materials to help students improve their understanding and performance in these subjects. |
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Technical skills

Programming languages

Proficient in: C, C++, Dart, Python

Familiar with: lua, Rust

Software

Android Studio, Blender, Flutter, Git, KiCad, \LaTeX

ROS2, SolidWorks, Visual Code

***Flexible to learn any software and language*

Other Technical Skills

Hands-on experience with Arduino Series, Raspberry Pi/Pico, ESP series and PIC/AVR Microcontrollers.

Proficiency in building, testing and debugging circuits.

Projects

- Irrigation system for Plants - Monitored and Controlled using smartphones.
- Mushroom Cultivator – worry-free about the environmental conditions
- DTMF based robotic arm waste picking vehicle from water bodies.
- Automatic railway gate which is based on RFID Technology
- Automation in Aquaponics.
- Diffusion Cloud chamber using Peltier module
- Kelpie - IoT Project to Automate Farm.

Language

English (fluent)

Hindi (Intermediate)

Malayalam (Native)