Sooraj Nhaloor

Master of Science in Physics

soorajnhaloor123@gmail.com

sooraj-nhaloor.github.io

+91-9645532937

Nationality: Indian

Research interests

Mechatronics, Bio Physics, and Particle Astronomy

Education

2021 – Present	**Indira Gandhi National Tribal University** – Madhyapradesh, India Master of Science in Physics
2018 – 2020	**Majilis Arts and Science College** – Puramannur, Kerala *Affiliated to University of Calicut* 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%*

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Mentorship and service

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.

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)