Sayansree Paria

B.Tech. | NIT Rourkela

Pre Final Year, Computer Science & Engg.
DOB: 10 August 2000
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Education

2019-Present
B.TECH., CSE
NIT Rourkela
CGPA : 9.84/10

May 2019
INTERMEDIATE
St. Paul's School, Rourkela
Percentage: 95.25%

May 2017
MATRICULATION
St. Paul's School, Rourkela
Percentage: 94.00%

Links

Github:// **Sayansree**
LinkedIn:// **sayansreeparia**
Portfolio:// **sayansreeparia.co**

Skills

GENERAL PROGRAMMING
C, C++, Java, Python, JavaScript, HTML, CSS

OPERATING SYSTEMS
Windows, Ubuntu, Debian

DATABASES
MySQL,MongoDB,CocroachDB,Datastrax

FRAMEWORKS
Node.js,Express.js,React.js,OpenCV,ROS,QT

SOFTWARES
Matlab,VS code,Vivado,Git

LANGUAGES
English, Hindi, Bengali, Odia

Relevant Courses

Data Structures
Design and Algorithms
Database Engineering
Discrete Maths

Work Experience/Projects

2020-2021 **Autonomous Underwater Vehicles (AUV's)** **Tiburon**

Hybrid controller design **Software**
Designed a hybrid PID + MPC controller that is responsible for controlling AUVs movements in any desired trajectory along with visualisation and debug GUI tools. *C++,Qt,ROS*

Web design **Software**
designed the significant part of Team website **auvnitrkl**
HTML,CSS,JavaScript,Bootstrap

Passive Sonar **Acoustic**
Designed a FPGA based system,devised and optimised DSP algorithms to detect underwater sounds and find their heading and distance efficiently in our AUV
verilog,C++,Arduino,Sliding Bin DFT

2021-2021 **Health Plus** **Web App**
A web app to store and visualize your's and your family's logged biometric data to create health consciousness
HTML,CSS,JavaScript,Node.js,React.js,Express.js

2016-2020 **Quantum (Quadcopter)** **Personal**
Built Controller, communication, and debugging softwares from scratch and its flight controller for an Unmanned Areal Vehicle (UAV) Prototype to understand the low level hardware and software workings of such systems. *C++, Arduino, Qt*

Achievements

Feb 2021 **Toycathon, Gov. of India** **Finalist**
Designed a electronic toy to teach small children about good and bad touch to address the issue of growing child abuse.

Jan 2021 **Hack Violet, MLH** **Winner**
Designed a vest with embedded heating elements controlled by your smart phone helps with period cramps, back pain and in extreme cold.

Dec 2020 **Who Done It Hacks, MLH** **Winner in 3 tracks**
Prototype a gadget HAT that shares your geo-location in case of emergency situation along with other cool features

Extra Curricular Activities

2020-now **Full Team Lead** **NITRRSSG SSL**
As a lead of Small Sized League (SSL) Robo-soccer Team, I planned and supervised design process of small robot swarms that plays soccer

2020-now **Acoustic Team Lead,**
2019-now **Software Team, Electronics Team** **TIBURON**
I have led a subsystem and contributed in 3 subsystems and served as a link between them, while designing and developing Autonomous Underwater Vehicles (AUV(s)).

2019-2020 **Avionics Lead** **UDAAN**
I proposed, planned and executed making of a Main Avionic Computer (MAC1) flight computer. Which is intended to fit into upcoming series of Armature rockets.