SAKSHI HARAL

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EXPERIENCE

Python Software Developer

Pixel Factor Solutions, Bengaluru Karnataka, India.

SKILLS

Programming Languages: Python, C, Ardunio, Raspberry pi, Power BI, Pandas & NumPy, Flask,HTML

Tools & Frameworks: MATLAB, SimulinkNB, Wolfram Mathematica

Languages: Marathi, English, Sanskrit, Hindi, German.

EDUCATION

Master of Science (Physics)

08/2023 - 2025

• Fergusson College, Pune

Coursework: Atomic, Molecular and Solid Physics, Material Science, Experimental Techniques, Computational Methods, Statistical Mechanics, Electrodynamics, Research project, Solid State Physics, Quantum Mechanics, Classical Mechanics, Atmospheric Science, Astrophysics, Nuclear physics, Advance Astronomy & Astrophysics.

Bachelor of Science .

06/2020 - 07/2023

- New Arts Commerce And Science College, Ahmedanagar.

Coursework:Mathematical methods in physics, Instrumentation, Nuclear physics, Advanced Electronics , Radiation Physics, Electrodtanamics, Oscillations, wave &sound, Optics, Digital system design, Python Programming, C, Physics workshop skill, classical mechanics, Atomic &molecular physics, Solid state physics, Solar PV System, Thermodynamics &statistical physics, Advanced Electronics,

CGPA-7.64

EXPERIENCE

Internship

Pune, Maharashtra

Ankur Enterprises · Internship May 2024 - Jun 2024

Skilled in operating milling, lathe, drilling, VMC, and CNC machines with expertise in machine programming and component analysis. Proficient in precision machining and optimizing CNC operations for efficient production.

EXTRA CURRICULAR

- Carriers In Science And Technology 2024,(IISER Pune) Workshop Attend.
- Energy Audit Course (Beginner Level).
- Night Sky Observation Telescope Workshop.
- Introductory Workshop on Quantum Computing.
- India Science Festival.
- Gravitational-Wave Instrumentation Workshop at IUCAA.
- Frontiers in physics workshop.
- HPC Awareness Program.
- Electron Microscopy: Fundamental to recent advancement.

PROJECT

Quadcopter DJI Phantom 4 Drone-
New arts commerceand science college 2023

- DJI Phantom 4 was released in 2016 as an updated version of its most popular prosumer drone model. I am trying to make the same model as before this project. This drone Brought obstacle avoidance, faster flight speed, increased signal range, and a longer flight time This drone was a significant upgrade from its Phantom 3 predecessors and became the go- to option for

Radio Telescope-Fergusson college pune 2024

- A radio telescope is a specialized antenna and radio receiver used to detect radio waves from astronomical radio sources in the sky. Arduino provides an easy and efficient way to control stepper motors using libraries and motor drivers. By fine-tuning speed, acceleration, and step resolution, precise motion control can be achieved in various applications.

Mathematical Modeling Of Single Stage Suspension advanced LIGO-IUCAA 2024

- This project focuses on the noise budgeting of asingle stage suspension system. The main task in this project is to identify and quantify various noise sources such as thermal , seismic , control noise etc, and to evaluate all of them and to look overall noises that is affecting the system. We will explore how this suspension helps isolates is the test masses, reducing unwanted noise.

Job Portal Web Application - Pixel Factor Solution 2025

- Build a Job Portal Web Application where users can post job listings, search for jobs, and apply.
- Topics Covered: Flask/Django, SQLite/PostgreSQL, HTML, CSS, Bootstrap, API Integration, Authentication.
- build a Job Portal Web Application where Job Seekers can register, search, and apply for jobs; Employers can post and manage job listings; and Admins can manage users and jobs. It includes key features like user authentication, job postings with details. (title, description, salary, location), searchable job listings with filters, and a database to store all data. The tech stack includes Python (Flask or Django) for the backend, HTML, CSS, Bootstrap for the frontend, SQLite or PostgreSQL for the database, and optional API integration. The code was pushed to a GitHub repository, following the complete project structure, and was later deployed to production using the Render platform.