

EDUCATIONAL QUALIFICATIONS

- Bachelor of Technology in Electronics Engineering – Odisha University of Technology and Research (2023-27)
- Diploma in Electronics and Telecommunication Engineering – UCP Engineering School (2019-22)

EXPERIENCE

Freelance Electronics Developer - Self-Employed (2016 - present)	
Work	<ul style="list-style-type: none">Designed and built custom electronics projects for clients, including PCB designs and IoT-based solutions.Assisted seniors with final-year projects, ensuring successful implementation and delivery.
Achievements	<ul style="list-style-type: none">Developed and delivered 15+ custom electronics projects with 100% client satisfaction rate.Reduced project development time by 40% through implementation of AI-assisted workflows.Reduced average project costs by 25% through optimized component selection and design practices.Created reusable project templates that increased development efficiency by 50%.
Project Contributor - Energy Club, OUTR (2023 - present)	
Work	<ul style="list-style-type: none">Assisted with soldering tasks to ensure accurate and robust connections for various circuits and PCBsCollaborated on sensor and module integration, ensuring precise calibration and seamless functionality in projects.Provided tips and tricks to team members to optimize workflows, improve efficiency, and enhance overall project.
Achievements	<ul style="list-style-type: none">Helped successfully complete 3+ major club projects, including a line-following robot and Robo Race Bots.Enhanced team collaboration by streamlining project workflows and troubleshooting technical issues effectively.
AI Intern – Digital Bhem (Remote) (2024 - 24)	
Work	<ul style="list-style-type: none">Task-1: Developed an image classification AI model using TensorFlow and the CIFAR-10 dataset.Task-2: Designed, developed, and deployed an AI chatbot using HTML, CSS and JavaScript.
Achievements	<ul style="list-style-type: none">Achieved a significant test accuracy for the image classification model, demonstrating strong model performance.Delivered a fully functional AI chatbot that enhances user experience with natural conversational capabilities.
Intern – Allision Solar Technologies (On-Site) (2022 - 22)	
Work	<ul style="list-style-type: none">Gained in-depth knowledge about solar panels and renewable energy technologies.Learned various techniques related to solar panel operations and maintenance.
Achievements	<ul style="list-style-type: none">Developed a strong foundation in renewable energy systems and their practical applications.Improved technical knowledge and hands-on skills in solar energy solutions.
TECHNICAL SKILLS	
<div><div><ul style="list-style-type: none">Programming Languages: C++, Python, JavaScriptWeb Development: HTML, CSS, responsive designTools: Visual Studio Code, Git, GitHubPCB Designing: KiCAD, EagleCAD, Proteus, Altium Designer.</div><div><ul style="list-style-type: none">Hardware: Arduino, ESP8266/32, Raspberry Pi, Various Sensors.AI Tools: ChatGPT, Gemini, Claude, Perplexity, Copilot, etc.IoT Platforms: Blynk, Firebase.3D Modeling & Printing: Fusion 360.</div></div>	
PROJECTS	
Advanced PID Line Follower Robot (2024 - present)	
Task	<ul style="list-style-type: none">Engineered a high-precision line-following robot achieving 95% accuracy in complex paths.Implemented adaptive PID algorithm with real-time parameter tuning.
Output	<ul style="list-style-type: none">Achieved 30% faster completion time compared to traditional line followers.Reduced power consumption by 40% through optimized motor control
IoT-Based Sun Tracking & Solar Monitoring System (2024 - present)	
Task	<ul style="list-style-type: none">Developed an IoT-based solar panel system integrating voltage sensors, DHT11, and LDRs.Implemented features like sun tracking, automated cleaning with wipers, and a protective shield.Created a Blynk-based monitoring dashboard for real-time parameter tracking.
Output	<ul style="list-style-type: none">Enhanced reliability by automating cleaning and protection mechanisms.Simplified monitoring with an intuitive IoT interface.
Custom Bare-Bones Arduino PCB Design (2023 - present)	
Task	<ul style="list-style-type: none">Designed a compact and cost-efficient bare-bones Arduino PCB using KiCAD..Integrated only essential components for optimized functionality.
Output	<ul style="list-style-type: none">Reduced PCB size by 40% while maintaining core Arduino functionality.Minimized cost per unit by 50%, making it suitable for budget-friendly projects.