

PRANATHI BELLAMKONDA

Hardware Engineer

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Summary

Experienced Hardware Engineer with 2 years of experience specializing in electronic component design and development. LED projects to optimize circuit boards for cost-efficiency and enhance assembly processes. Proficient in conducting rigorous testing and validation to ensure product reliability. Skilled in advanced schematic design techniques and resolving prototype issues efficiently.

Education

B.Tech In Mechanical Engineering Brilliant Group Of Institutions.	June 2019–September 2022 CGPA–7.10
Diploma In Mechanical Engineering Govt. Polytechnic Nalgonda.	June 2016–March 2019 CGPA– 8.00

Technical Skills

- Programming Languages: Python, C, C++
- Excel, Ms Word
- Databases: SQL & Protocols: HTTP, MQTT, WEB SERVER
- Operating Systems: Linux
- Machine Learning & Embedded software

Work Experience

Jukshio Innovation Pvt.Ltd Hardware Engineer	Jun 2023-Jan 2025 Client: Reliance
<ul style="list-style-type: none">• Have Hand on experience working with Linux commands.• Have knowledge on real-time embedded software and device drivers (like: Arduino Uno..., Raspberry Pi Projects.)• Have Knowledge on Software Engineering Like: SDLC, Water Fall Model...• Design and Development based on Object oriented programming.• Protocols such as TCP/IP/UDP/ SIP/RTP..etc• Designed and developed electronic components, achieving reduction in production costs through innovative circuit board optimizations. Spearheaded the manufacturing and assembly of Smart carts and 3D printing parts, resulting in a 60% Improvement in assembly efficiency.• Managed end-to-end hardware development projects on Raspberry Pi, enhancing system reliability through rigorous prototyping and troubleshooting.• Utilized advanced schematic design techniques and components selection strategies to resolve 15% of prototype issues during early-stage development.• Conducted thorough testing and validation processes, ensuring compliance with industry standards and achieving success rate in product reliability tests.	

Intern

- Implemented Machine Learning algorithms and utilized Open CV for image processing tasks,enhancing efficiency.Curated and analysed datasets for data cleaning and preparation, improving data accuracy by 50%.
- Extended Python scripts for automation,reducing manual effort by hours per week.Performed statistical
- Analysis on experimental data,achieving accuracy rate in predictive modeling.Assisted in the integration of AI.
- Solutions ,contributing to a 30% improvement in system performance.Presented findings and
- Recommendations to senior team members,facilitating data-driven decision-making processes.

Projects

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- IOT Based Automatic Plant Watering System Through Soil Moisture Sensing Using ESP32 Wifi Module .
 - CARTZY–AI- Powered Smart Shopping Cart.
 - Delivery Robot- Measure Autonomous Delivery Vehicle.