

UDAY KALYAN

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SUMMARY

Eager to excel in Electronics and Hardware Engineering with a proven track record in AI-based algorithms, achieving a remarkable 95% accuracy rate in animal detection. Seeking opportunities to drive innovation in hardware solutions within a dynamic and growth-oriented environment.

EDUCATION

- Master of Science in Electronics
Gitam University
October 2021 – December 2023
GPA – 76%
- Bachelor of Science
Gitam University
July 2018 – July 2021
GPA – 76%

TECHNICAL SKILLS

- Programming Languages:** C, c++ (Basic)
- Hardware:** Microcontroller, Microprocessor
- Software:** Windows, MS Office
- Microcontroller Development:** Arduino Programming
- Embedded System Design, Linux

INTERNSHIPS

AcenAAr Technologies Pvt Ltd
Kurnool

January 2023 - April 2023

- Collaborated effectively within a cross-functional team, demonstrating excellent teamwork skills and significantly boosting project efficiency by 20%.
- Met and consistently exceeded project deadlines, showcasing strong self-motivation, time management, and the ability to deliver results consistently and on time.
- Played an integral role in the development of advanced microcontroller applications, resulting in a substantial improvement in overall system performance.
- Conducted rigorous and comprehensive testing procedures, proficiently identifying and rectifying an outstanding 95% of hardware defects before they reached production, ensuring the highest product quality.
- Contributed significantly to designing and implementing an IoT solution, leading to a remarkable reduction in operational costs, emphasizing a dedication to efficiency and cost-effectiveness.

WORK EXPERIENCE

Leap Robotics Pvt Ltd

Robotic Trainer

- R&D Projects:** Participate in research and development projects to innovate and improve training methodologies and tools
- Training Delivery:** Collaborate with the training team to develop and deliver effective student training programs.

PERSONAL PROJECTS

AI-Based Domestic Animal Detection

Dec 2022 – Apr 2023

- Demonstrated an impressive 95% accuracy rate in identifying domestic animals through the application of AI algorithms, guaranteeing reliability in animal detection.
- Employed the YOLO algorithm to enable real-time and precise detection of cats, enhancing the system's responsiveness.

- Seamlessly incorporated a door control system, allowing automatic access control based on cat detection, augmenting convenience for pet owners.
- Leveraged advanced computer vision techniques to fine-tune the system, further boosting the accuracy and effectiveness of animal detection.
- Significantly elevated both security and the ease of managing domestic animals, resulting in a more robust and user-friendly solution.

CERTIFICATIONS

- **Completed 1-year course in Embedded Systems at Emertxe Institute.**
- **Achieved certificate in c and Python**