

# Asjad Akhtar

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## WORK EXPERIENCE

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### Kalam Labs

Lucknow, UP

*Embedded System Engineer*

*Dec 2023 - Jan 2025*

- Engineered Arduino-based BalloonSat Reporting 35km altitude; integrated audio-visual systems, successfully broadcasting the Indian anthem in near space.
- Created 2 fully-functional drones (fixed-wing & quadcopter); designed custom PCBs, programmed STM32/ESP32 controllers using Embedded C/C++, interfaced via UART, I2C, SPI protocols.
- Developed and optimized drone control applications utilizing Flutter (Dart) and Unity (C#), enhancing user experience by 40% as measured by user satisfaction surveys while reducing latency issues by 30%.

### Salesqueen Software Solutions

Chennai, Tamil Nadu

*Front-End Intern*

*Jun 2023 - Jul 2023*

- Developed and maintained the front end of the Customer Relationship Management (CRM) application using HTML, CSS, and JavaScript.
- Integrated third-party libraries and frameworks (e.g., Bootstrap, jQuery) to enhance the functionality and aesthetics of the CRM front end.
- Demonstrated a keen eye for design details, ensuring consistent branding and aesthetics throughout the CRM front end.

## PROJECT EXPERIENCE

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### Hybrid Localization and Navigation System for Dynamic Target Employing RSSI and A\* Algorithm Lucknow, UP

*Journal Paper*

*Feb 2023 - Jan 2024*

- Designed an interpreted representation of the indoor environment with nodes representing locations and edges representing connectivity.
- Demonstrated the ability to estimate the user's position within the indoor environment using signal strength and the A\* algorithm.

### Code Camp

Lucknow, UP

*Self-taught Project*

*Sep 2023 - Sep 2023*

- Developed and deployed a scalable full-stack web application utilizing node.js, mongoDB, and Bootstrap technologies.
- Implemented comprehensive testing strategies for the web application resulting in a 30% decrease in bug reports and ensuring a seamless user experience.

### 5G Embedded Decentralized Systems for Secure and Efficient Data Sharing

Lucknow, UP

*Book Chapter*

*Apr 2023 - Sep 2023*

- Conquered the potential of 5G technology in addressing these challenges by enabling faster data transmission, improving connectivity and reliability, and enhancing security encryption and privacy.
- Contributed to understanding how 5G technology can revolutionize data sharing and management in decentralized systems.

## EDUCATION

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### Amity University Lucknow Campus

Lucknow, UP

*B.Tech Computer Science and Engineering*

*Graduation Date: Jul 2024*

## SKILLS

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**Skills:** C++ | C | python | Java Script | Java | Network | Unix | Bash | Git | SQL | GO | embedded system | Full-Stack