



Akshith Mysa

Date of birth: 16/05/2003 | **Place of birth:** Hyderabad, India | **Nationality:** Indian |

Gender: Male | **Phone number:** (+91) 8712710699 (Mobile) | **Email address:**

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ABOUT ME

Versatile Electronics and Communication Engineer with proven ability to quickly adapt and excel across diverse technological domains. Core expertise in embedded systems development, with successful projects ranging from autonomous navigation systems to AI-powered solutions. Demonstrated mastery in hardware-software integration through development of flight controllers, positioning systems, and micro aerial vehicles. Strong foundation in system validation, sensor integration, and performance optimization, complemented by full-stack development capabilities. Track record of rapidly learning and implementing new technologies while delivering reliable solutions through research experience at IIT Hyderabad and NIT Raipur.

WORK EXPERIENCE

 **SELF EMPLOYED** – HYDERABAD, INDIA

FREELANCER – 01/2025 – CURRENT

Designed and developed SEO-optimized landing pages and full websites using **React.js**, improving performance and visibility for multiple clients.
Implemented on-page SEO strategies (meta tags, structured data, keyword placement), boosting search engine rankings and organic traffic.
Built a custom **CRM application** for a client to manage leads, user roles, and customer workflows, enhancing business efficiency and tracking.
Collaborated directly with clients to gather requirements, deliver tailored solutions, and ensure responsive, user-friendly UI/UX.

 **OSCOWL AI** – HYDERABAD, INDIA

ASSOCIATE AI ENGINEER – 08/2024 – 01/2025

Architected and implemented state-of-the-art voice cloning models, demonstrating ability to work with complex signal processing systems
Developed full-stack solutions integrating AI models with web applications, showcasing system integration expertise
Worked with Large Language Models (LLMs) to develop intelligent applications
Conducted comprehensive testing and validation of AI models and system integrations
Demonstrated versatility in handling multiple technologies and rapid adaptation to new frameworks

 **NMICPS-TIHAN IIT HYDERABAD** – HYDERABAD, INDIA

RESEARCH INTERN – 05/2023 – 11/2023

Research Intern at Aerodynamics and Bio-inspired Lab, TiHAN IIT Hyderabad. Worked on ornithopters and GPS denied navigation for MAV drones.

 **NIT, RAIPUR** – HYDERABAD, INDIA

Research Intern at Dept. of ECE, worked on Signal processing of P300 EEG Signal and Brain Computer Interface

EDUCATION AND TRAINING

2020 – 2024 Hyderabad, India
BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING KL University, Hyderabad

Website <https://klh.edu.in/> | Level in EQF EQF level 6

LANGUAGE SKILLS

Mother tongue(s): TELUGU
Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	B2	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

embedded systems | Python | Linux | Fullstack Web Developer (TypeScript) | Fullstack Developer | ARTIFICIAL INTELLIGENCE | machine learning | SLAM (Simultaneous Localization and Mapping) | unmanned air systems | Docker | Git | OpenCV | ROS(robot operating system) | Communication-Skills | Team management & Team work

PUBLICATIONS

2023
“Navigation of Unconventional Drones – Autonomous Ornithopter”, for the book Artificial Intelligence Application in Aeronautical and Aerospace Engineering, Wiley Publications (2023)

Written a book chapter on “Navigation of Unconventional Drones – Autonomous Ornithopter”, for the book Artificial Intelligence Application in Aeronautical and Aerospace Engineering, Wiley Publications (2023)

Authors: Syam Narayanan S, Yogesh Gangurde, Akshith Mysa, Satyajit Movidi, P Rajalakshmi | Publisher: Wiley Publications

PROJECTS

Classification of P300 EEG signal using Deep Learning

Classified the P300 signal into Hit or No Hit using Convolution Neural Network.

Design and Development of Flight Controller

Designed and implemented a custom flight controller using ESP32 microcontroller
Integrated MPU6050 for gyroscopic stabilization and sensor fusion
Developed and tested PID control algorithms for stable flight
Conducted extensive hardware-in-the-loop testing.

Ultra-Wide Band Positioning System for Ornithopter

Developed and implemented UWB-based indoor navigation system for bio-inspired flapping wing robot.
Achieved precise real-time positioning and tracking of ornithopter in GPS-denied environments.
Integrated UWB sensors with onboard flight controller for autonomous navigation.

GPS Denied Navigation for Micro Aerial Vehicle

This project develops an autonomous navigation system for Micro Aerial Vehicles (MAVs) operating in GPS-denied environments, utilizing advanced visual SLAM (Simultaneous Localization and Mapping) techniques.

The system employs ORB-SLAM3, a state-of-the-art visual SLAM algorithm, integrated with an Intel RealSense D435i stereo camera for real-time mapping and precise positioning.

Blimp Platform Development Using Modified CrazyFlie Flight Controller

This project focuses on the development and implementation of a blimp platform by adapting the CrazyFlie drone flight controller system. The core innovation lies in the modification of the PID control parameters to accommodate the unique flight dynamics of a lighter-than-air vehicle, fundamentally different from traditional quadcopter dynamics.

Intelligent Learning Management System with AI Integration

This project develops an advanced Learning Management System (LMS) that leverages artificial intelligence to create a personalized and adaptive learning environment. The system features an intelligent chatbot assistant and sophisticated assessment algorithms that dynamically adjust to individual learner progress and needs.

Facial Recognition based on Siamese Neural Network

Build a deep learning model based on Siamese Neural Network for Facial Recognition. Deep Audio Classification.

Deep Audio Classification using Neural Network

Build a model which counts number of bird calls in a given audio clip using CNN and LSTM based architectures.

PDF Buddy - Your Interactive Document Companion

Upload your document and our buddy will answer questions, summarize content and etc. Using Google's Gemini 1.5 Flash Model with chat Memorization feature.

● HOBBIES AND INTERESTS

Cooking, Travelling, Art, Sports, Linux Ricing, Esports and gaming



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