

Akhil M

132/47, 3rd cross, Triveni Road, Yeshwanthpur, Bengaluru, India, 560022
+91 9048739634 | eminem.akhil17@gmail.com | [Linkedin](#) | [GitHub](#)

SUMMARY

Graduate in Mechanical Engineering with proficiency in development, prototyping, analysis, and implementation of algorithms in Image Recognition, Object detection, Data Analysis and an avid robotics enthusiast.

- Ability to adapt rapidly to new environments and fields of study, such as mathematical modeling, machine learning and its applications across fields like bio-medical and finance.
- Socially committed and an active participant in building a technologically aware and active community of youngsters, thereby empowering them to solve the vital challenges of society through technology and alternative education.

EDUCATION

BACHELOR'S IN MECHANICAL ENGINEERING | GOVERNMENT ENGINEERING COLLEGE BARTON HILL
THIRUVANANTHAPURAM, KERALA, INDIA

8 semester program with 120 cumulative credits

Overall GPA: 9.33/10 | Graduation Date: July 2021

SCHOOL | KENDRIYA VIDYALAYA SAP, PEROORKADA, KERALA

March 2007 – March 2017 | CBSE PERCENTAGE: 92

High School and Senior Secondary

WORK EXPERIENCE

RESEARCH ASSISTANT | IISc , BENGALURU, INDIA

August 2021 - Present | ML & AI Project Assistant at BEES LAB, DESE

Currently working alongside PhD. scholars with the guidance of Dr. Hardik J. Pandya on projects with ML or AI aspects in Biomedical domain. Developing and optimizing algorithms for image recognition, deep learning and data analysis.

INTERNSHIP | IISc , BENGALURU, INDIA

June 2021 - August 2021 | Data Analysis Intern

The tasks I was assigned entails data cleanup, analysis and interpretation for the assistance of research students. Indicative examples of such projects include:

- Cleaning up of data with over thousands of rows and Visualizing with plots and charts using Microsoft Excel
- Automating cleaning up and visualization using Python programming with tools such as Pandas, Numpy and Matplotlib

INTERNSHIP | Dot Product , KERALA, INDIA

January 2021 - March 2021 | Data Analysis Intern

POSITION HELD | Bartonoidz, ISTE , KERALA, INDIA

May 2020 - June 2021 | Chairman at Bartonoidz Robotics Club

Chairman at Bartonoidz, the robotics club of GOVERNMENT ENGINEERING COLLEGE BARTON HILL under Indian Society for Technical Education(ISTE)

PUBLICATIONS

Processing and Characterization of 3DPrinted Inconel718 Component through Laser Powder Bed Fusion Route for HighTemperature Space Application

JOURNAL: Indian National Academy of Engineering(INAE)

<https://doi.org/10.1007/s41403-020-00196-6>

SKILLS

LANGUAGE SKILLS

- English: Full Professional Proficiency
- Hindi: Limited Working Proficiency
- Malayalam: Native Speaker
- German: Elementary Proficiency

SOFTWARE SKILLS

C++ • PYTHON • Microsoft EXCEL/PPT/WORD • R • AUTOCAD • Adobe Photoshop/Premier Pro • TABLEU

PROFESSIONAL SKILLS

Critical Thinking • Teamwork • Problem Solving

DRIVING LICENCE

- Indian Driving License Category LMV

PROJECTS

Obstacle avoiding Robot

- Obstacle Avoiding Robot is an intelligent device which can automatically sense the obstacle in front of it and avoid them by turning itself in another direction. The said project was completed using an Arduino and Ultrasound sensors.

Quadriplegic Cap

- Quadriplegia, or tetraplegia, is a condition where all four limbs experience paralysis. Quadriplegics often have experienced severe trauma. A cap was developed for assisting said patients for navigating on a computer screen. It was completed using an Accelerometer and by using a Microcontroller.

Gas Sensing Grenade

- Gas sensing grenade(GSG) can be thrown inside the building with fire or other dangerous conditions. The module consist of an MQ2 gas sensor, a microcontroller and a 433MHz transmitter, and 9v battery. The MQ2 gas sensor can sense Methane, LPG, Butane and Smoke. It senses the gas in PPM values and will be monitored by the microcontroller. This values are then transmitted back to the receiver.

Unmanned Underwater Vehicle (DRDO)

- Submitted a proposal for an Unmanned Underwater Vehicle as part of DRDO(Defence Research and Development Organisation) Robotics and Unmanned Systems Exposition event.

Paper Pen Vending Machine

- A smart paper pen vending machine was designed and developed. This project was developed in order to address the issue of plastic pens as a waste in the college campus environment. A paper pen is given in return when 3 plastic pens are deposited into the machine. The machine was completed using a Raspberry pi, pi cam and various sensors. Machine learning and image recognition was used for this.

ACHIEVEMENTS

Robothon 4.0 - Runners Up

ROBOTHON 4.0 was a 3-day National robotics hackathon conducted by IEEE College of Engineering Chengannur Students Branch.

Hacksquad 2.0 - Winner

One day national hardware and software hackathon organized by IET SB, College of Engineering Trivandrum as part of their technical fest DRISHTI

Arduino Buzz(2019) - Winner

One day Arduino based hackathon conducted by LBS institute of Technology for Women(LBSITW), Trivandrum

Arduino Makeathon - Winner

One day Arduino based hackathon conducted by Sree Chitra Thirunal College of Engineering(SCTCE), Pappanamcode, Trivandrum

CERTIFICATIONS

FOSSEE IIT Bombay Summer Fellowship 2019 - Report

Architecting with Google Compute Engine by Google Cloud on Coursera

IBM Applied AI by IBM on Coursera

IBM AI Engineering by IBM on Coursera

INTERESTS

Guitar • Programming • Tech • Gaming • Photography