ACHUTH RAM MUTHUKOTE

Graduate Student | Materials & Mechanical Engineer
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Summary

Driven Materials Engineering student and Mechanical Engineering graduate with practical experience in project management, innovation ecosystems, and entrepreneurship development. Proficient in engineering design software and workflow automation tools, with a strong ability to solve technical challenges and deliver results in collaborative, high-impact environments.

Education

➢ **Rheinisch-Westfälische Technische Hochschule Aachen**

  Masters in Materials Engineering | Structural Integrity | 2025 - Present

➢ **Rajagiri School of Engineering and Technology**

  B. Tech in Mechanical Engineering | 2018 - 2022 | CGPA: 7.13

Experience

➢ **Kerala Start-up Mission (KSUM)**

  o Technology Fellow

    December 2023 - March 2025

    • Responsible for handling the Young innovators Program as part of KSUM by evaluating 6000+ projects and providing necessary support.

  o Project Management Coordinator Trainee

    June 2022 - April 2023

    • Incharge of organising 30+ training sessions, workshops and evaluation of projects of the young innovators.

Projects

➢ **Young Innovator's Programme**

  • Leading the Young Innovator's Programme (YIP) initiative to foster innovation and entrepreneurship among students.

  • Coordinating ideation workshops, training sessions, and pitch events to develop ideas into viable startups.

  • Automated various tasks using Google tools, scripts and AI agents using n8n.

  • Managed the YIP initiative, promoting innovation and entrepreneurship.

  • Organized and facilitated workshops, trainings, and pitching sessions.

➢ **Assistive Mechanism for the Visually Impaired**

  • Created a cost-effective, compact device for obstacle avoidance using laser systems, providing feedback via audio and vibrations.

➢ **Forest Fire Detection Drone System**

  • Developed a drone system for early forest fire detection using image processing cameras and flame/smoke sensors.

Skills

➢ **Software**:

  • FEA Tools: ANSYS Workbench

  • CAD Tools: AutoCAD, CATIA

  • Automation: Google Apps Script, n8n

  • Scripting: Python, JavaScript

  • Microsoft Office

  • Google Tools

➢ **Soft Skills**:
- Leadership
- Team Collaboration
- Time Management
- Communication
- Attention to Detail.

Certifications & Training

- Google Apps Script Course from Udemy.
- Automotive Electrical & Vehicle Diagnosis (Online Internship with BOSCH).
- Electric Vehicle Internship by Reynlabs & Techmaghi.

Achievements & Awards

- 17th place in IAM3D Drone-making Competition (ASME)
- Resource Person for S.A.L.T (Startup Awareness and Leadership Training)
- Qualified for IDEA FEST'22 and YIP by KSUM for assistive mechanism project.
- Presented a paper on the assistive mechanism at ICT4SD Goa.
- Part of organizing committee for YIP 3.0, 4.0, 5.0, Huddle Global 2022, 2023 & 2024, IEDC Summit 2023 P1, P2 & 2024, Seeding Kerala 2023.

Publications

Published paper on Easy Portability and Cost-Effective Assistive Mechanism for the Visually Impaired in Springer Lecture Notes in Networks and Systems. View Publication

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References

- **Ms. Arya Krishnan|** Technical Officer, IT Department | Kerala Start-up Mission | arya@startupmission.in
- **Dr. Vishnu Sankar |** Assistant Professor, Dept. of Mechanical Engineering | RSET | vishnus@rajagiritech.edu.in
- **Mr. Nitheesh Kurian |** Assistant Professor, Dept. of ECE | nitheeshk@rajagiritech.edu.in