GOPAL GOWDA S

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PROJECTS

Autonomous Mobile Robot: An Autonomous Mobile Robot (AMR) is a sophisticated robotic system capable of navigating and performing tasks in dynamic environments without human intervention. This report provides an overview of the AMR project, covering its design, implementation, and functionalities. The AMR is equipped with advanced sensors and algorithms to ensure efficient and intelligent operations

The Solar-Powered Warehouse Robot: This project develops solar-powered autonomous robots to improve warehouse efficiency and sustainability. The robots perform tasks like inventory management and goods transportation while using solar energy to reduce environmental impact and energy costs.

Hardware Components: SBC , Microcontroller , various sensors (LIDAR, IR, GPS), motors with drivers, and a rechargeable battery.

Software Components:Python or C/C++, using algorithms like A*, SLAM, and obstacle avoidance, supported by the ROS framework for system integration.

TECHNICAL SKILLS

Languages : C, Python , Algorithms , Data Structures.

Course Works: Robotic Operating System, Object Oriented Programming, CAD, Mechanical Design, ANSYS, Hydraulics and Pneumatics , Finite Element Analysis.

Tools/Platforms: Fusion 360, RoboDK, VS Code , MATLAB, CURA (3D printing slicing tool), FEA Lab (used for Finite Element Analysis).

Others: Team Work, Communication Skill, Multitasking, Problem Solving, Time management, Presentation skills.

EDUCATION

JSS ACADEMIC OF TECHNICAL EDUCATION ,BANGALORE
Bachelor of Engineering in Robotics and Automation. CGPA: 8.0/10.0 **2025 Present**

GOVERNAMENT POLYTECHNIC(DIPLOMA MECHANICAL) - 8.35 2023

ARUNODAYA HIGH SCHOOL 10th – 77% 2020

CERTIFICATES

Intern at Indo-MIM Private Limited(4 months in Medical Moulding)https://tinyurl.com/3cdu2f8j.
Participation Certificate in Robolympics - Journey of Precision & Play.https://tinyurl.com/2j4wbktt
MAGNOVITE -maze merise Event at inter collegiate Fest.https://tinyurl.com/3ytevpwb

Languages: English(Highly Proficient) , Kannada (Native Speaker) .

Interests : Mechanical Designing, 3d Printing, Robotic Operations.