

Logesh G

Student

Tamil Nadu, India

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EDUCATION

Bannari Amman Institute of Technology, Tamil Nadu, India

2022 - 2026

- **Degree:** Bachelor of Technology in Computer Science and Business Systems
 - **CGPA :** 8.4
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PROJECTS

Scara Robotic Arm - *Robotics and Computer Vision*

- Developed a Scara robotic arm from scratch and implemented an autonomous pick and place task.
- Integrated a YOLOv8 object detector with perspective projection to accurately calculate object positions.
- Developed a teleoperation system for the robotic arm using potentiometers and ROS.

Autonomous Robot Manipulation System - *Robotics and Computer Vision*

- Developed a perception and control system for a UR5e robotic arm using MATLAB and Gazebo.
- Implemented a YOLOv4 object detector for accurate object detection and utilized depth and point-cloud data to estimate the poses of individual objects within the scene.
- Created a simplified control stack to autonomously pick objects from a table and sort them into designated bins.

Autonomous Drones - *Computer Vision*

- Implemented a YOLOv8 object detector to detect and localize the position of drone with respect to target.
 - Contributed to drone control development using the DroneKit Python package.
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SKILLS

- **Programming Languages:** Python, C, C++, MATLAB
 - **Computer vision:** Object Detectors, Perspective Projection, Pose Estimation
 - **Frameworks / Libraries:** OpenCV, Numpy, PyTorch(basics), ROS(basics)
 - **Tools:** Github, Docker, Visual Studio Code, Arduino IDE
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COMPETITIONS

- RoboCup ARM Challenge 2024 (RoboCup24 - Eindhoven, Netherlands) - Finalist
 - Flipkart Grid 5.0 - Robotics Challenge - Finalist
 - SAE Aerothon 2023 - Finalist
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LANGUAGES

English, Tamil