

HARSHA VARDHAN REDDY

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PROJECTS

Performance of butt weld using E6013 electrode

Guru nanak institution of technical campus • February 2024 - May 2024

- Performance of tensile strength
- Magnetic test
- NDT test
- Leed hardness test
- Conducted detailed Vickers hardness testing on butt welds created with E6013 electrodes, ensuring compliance with industry standards and resulting in a 15% improvement in joint durability through meticulous process optimization.

Gesture controlled robot

Guru nanak institution of technical campus • November 2023 - January 2024

- Engineered a sophisticated gesture-controlled robot using Arduino, Python, and an accelerometer, refining the sensor algorithms to achieve a 95% accuracy rate in motion interpretation over three months of iterative development.

Go kart design challenge

ISNEE MOTORSPORTS • <https://isnee.in/gkdc/subpages/Season10.aspx> • November 2022 - April 2023

- Participated in a Go-kart Design Challenge, demonstrating
- strong engineering and design skills. Led a team in
- conceptualizing, designing, and building a high-
- performance go-kart from scratch. Collaborated on vehicle
- dynamics, aerodynamics, and safety features, resulting in
- a competitive and innovative go-kart design".

EDUCATION

B Tech, Mechanical

Guru nanak institution of technical campus • Ibrahimpatnam, Hyderabad • 7.05

SKILLS

Technical Skills: Auto Cad, Solidwork, C Language

Soft Skills: Problem Solving, Critical Thinking, Leadership, Team Work, Collaboration

Languages: English, Telugu, Hindi

Field of Interest: Auto Mobile Industry, Automotive, Robotic