



# NEW HORIZON COLLEGE OF ENGINEERING

Department of Information Science & Engineering

QUARK 2024

Date: 15-02-2024 to 18-02-2024

Venue: BITS Pilani , Goa

## Winning Team

Team Name: Hawk Eye

### Members:

1. Darshan. D. M	1NH221S033
2. Kaushik. J. T	1NH22IS065
3. Harshith K. M	1NH221S051
4. Pranit. R	1NH22IS002
5. Nidhi. R	1NH22IS001
6. Ananya.S	1NH22IS013
7. Shreya .R.V	1NH22IS158

Quark, the annual technical festival of **BITS Pilani-K.K. Birla Goa Campus**, stands as one of the premier events in India's technical landscape. Spanning from 15th to 18th February 2024, Quark attracted enthusiasts and innovators from across the nation.

One of its most exciting events is Robowar, a thrilling competition reminiscent of Robot Combat or Robot Wars. Teams design remote-controlled robots armed with various weapons like spinning blades and hammers, engaging in intense battles in a controlled arena. The goal is to outmaneuver opponents and disable their robots.

On 15th February 2024, the Robowar competition unfolded at BITS Pilani Goa, showcasing each team's brilliance and strategic prowess. Our team fearlessly embraced the challenge, demonstrating dedication, innovation, and skill in robotics. Despite tough competition, we secured **2nd place**, a testament to our commitment to excellence in this field.

This victory at Quark highlights not only our technical expertise but also our passion for innovation. It's a proud moment for our team and a step forward in our quest for technological advancement.



The winning team from NHCE has bagged prize of Ten thousand rupees along with a trophy in QUARK 2024 , BITS Pilani ,Goa

## **BOT NAME - IRON FANG**

Iron Fang is a remote-controlled combat robot which features a vertical spinner design. The drive system utilizes brushless motors connected to a 20:1 gear ratio gearbox. The weapon is powered by a high RPM brushless motor. Each motor is connected to its Electronic Speed Controller (ESC), collectively linked to a 2800 mah 16v 4s 150c battery



Leveraging hardware innovations such as advanced sensors, actuators, and control systems, the victorious team is focused on enhancing their robot's abilities, with the goal of making a constructive impact on the advancement of combat robotics.

This report endeavors to underscore the significance of the Robowar competition, spotlighting the accomplishments of the team and the inventive solutions showcased throughout the event.

**Faculty Coordinator**

**HOD**