

# Yash Herekar

## Computer Science Graduate

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🔒 <https://gitlab.com/1337encrypted>

### SUMMARY

Computer science graduate with expertise in embedded systems, robotic and IoT. Proficient in C, C++, and Python, with experience in writing APIs and developing microcontroller-based systems. Skilled in software design and implementation. Detail-oriented, innovative problem-solver with strong communication skills and collaborative approach to project work.

### TECHNICAL SKILLS

#### Embedded C/C++/Arduino

Object Oriented Programming, State machine Programming, Bare-metal Programming

#### Linux

Networking, Bash scripting, GIT-SCM

#### Microcontrollers

Atmega328p, Raspberry pi pico, ESP32, Mega 2560, 8051

#### Fusion360

### PROJECTS

#### Creator - BTS7960 Motor Driver Library

2022 - present

Developed an open-source library for the BTS7960 motor driver.

#### Maintainer - Network Reconnaissance

2022 - present

Scanned the GIT campus network and curated a list of all open ports and vulnerable services on the network.

#### Creator - Four wheel Drive Buggy

2020 - present

Developed an embedded finite state machine which controls a four wheel robot via I-BUS or PS3 controller Programmed in C++ and implemented object oriented paradigm

### EDUCATION

#### B.E Computer Science and Engineering

KLS Gogte Institute of Technology

2020 - present | Belgavi, India

CGPA 8.17

#### Pre University

K.L.E. Society's Raja Lakhamagouda Institute

2019 - 2020 | Belagavi, India

Percentage 86.67%

#### School

St. Pauls High School

2006 - 2018 | Belagavi, India

Percentage 88.16%

### PARTICIPATED

#### Quark

Birla Institute of Technology and Science

2023 | Goa, India

#### World Robotics Championship

Technoxian

2022 | Delhi, India

#### Developthon '22 36 hours hackathon

Deshpande startups

2022 | Hubli, India

### ACHIEVEMENTS

#### 1st place - IM3D

ASME EFX India at PES University

Designed and developed a 3D printed hovercraft which can pick and place a certain payload

Bengaluru

1 April 2023

#### 1st place - Robo Race

MIT Art, Design & Technology University

Pune

18 February 2023

#### 2nd place - Aerial Endeavour

RV College of Engineering

Designed and programmed an egg dropping mechanism which hovers on a drone and securely delivers the egg to a set waypoint without cracking it.

Bengaluru

4 January 2023

#### 1st place - Vaividhyam Project Symposium

KLE Dr.M.S. Sheshgiri

Developed a omnidirectional robot

Belagavi

2022