



Bhavesh Bakshi

Mechatronics Engineer

Experienced mechatronics engineer skilled in Robotics, Automation, CAD and IoT seeking a Robotics R&D Engineer role to apply knowledge of surgical robotics in creating innovative and life-changing solutions.

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☎ 8825095037

📍 Gurgaon, India

EDUCATION

B.E

Birla Institute of Technology, Mesra

07/2017 - 07/2021

7.3 CGPA

Courses

- Mechanical Engineering

12th

Army Public School Damana

04/2015 - 04/2017

Secured 88%

Course

- Science

WORK EXPERIENCE

Mechatronics Engineer

SS Innovations

10/2022 - Present

India

A Surgical Robotics Company

Achievements/Tasks

- Dealt with problem at system level, did System Integration and testing.
- Worked with drives and encoders for Motion Control.
- Made changes to the designs to make system better and more functional.

Lead Consultant

Learning Links Foundation

04/2022 - 09/2022

India

An NGO which provided technical trainings to innovative school students

Achievements/Tasks

- Taught more than 1000 students of different Kendriya Vidyalayas of class 11-12 and helped them convert their ideas and imagination to working projects and prototypes.
- Completed 30+ different projects on IoT and mobile Robotics

Business Development Associate

BYJUs

06/2021 - 11/2021

India

Achievements/Tasks

- Converted over 30 potential customers and generated over 20 lacs of revenue in less than 3 months

Intern

Heavy Engineering Corporation Ltd, Ranchi

06/2019 - 08/2019

Achievements/Tasks

- Assisted in project planning, execution and monitoring
- Participated in meetings, workshops, and other company events
- Shadowed and assisted senior staff members in their daily tasks and projects

SKILLS

Java

ROS

Motion Control

AI/ML

C++,XML

Creo Parametric

Raspberry Pi, Arduino

Encoders

EtherCAT

Robotics R&D

PID Tuning

Digital Signals

RTOS

PERSONAL PROJECTS

Cable Test Jig (04/2023 - Present)

- Developed a Cable testing Jig for checking shorting, continuity and pin configurations in different power and communication cables.

Trackable Shoes (06/2021 - 07/2021)

- Developed a shoes that could be tracked if emergency call is triggered by a physical emergency switch located at 3 different positions on the shoes.

Drone for structural Inspection (01/2021 - 06/2021)

- Developed a drone integrated with structural analysers for remote inspection of bridges, and other structures.

Autonomous Robot (01/2018 - 06/2018)

- Developed a four-wheel drive bot capable of detecting balls of different colours and deliver them to their assigned locations automatically.

3 SAE BAJA ATVs (2018 - 2020)

- Designed and fabricated 3 rear wheel drive ATVs for SAE BAJA competitions

RC Aircraft (2018 - 2019)

- Designed fabricated and tested 5 different variations of a remote controlled aircraft before reaching the final version which could also deliver a payload.

PID tuned line follower (05/2019 - 06/2019)

- Developed a PID tuned line follower which could complete tracks 5 times faster than an average line follower.

LANGUAGES

English

Full Professional Proficiency

Hindi

Full Professional Proficiency

French

Limited Working Proficiency

INTERESTS

ROS

Artificial Intelligence

IoT

ML

Autonomous robots

CAD

UAVs

Robot programming