

# Mihir Trivedi

## Research & Development Engineer

A passionate researcher with 4+ years of experience in Robotics, IoT, Product Development and Project Management.



mihir9795@gmail.com

+91-7405388567

Ahmedabad, India

## WORK EXPERIENCE

### Research & Development Engineer Kalyani Technologies Limited

12/2019 - Present

Pune, India

#### Achievements/Tasks

- Working as a Project Lead with a team of 3+ members and Recruiting and Training Interns
- Working on FFT, ML, AI algorithms to predict live machine health and predict any failures and remaining useful life of machine
- Worked on Pufferfish - open source Ventilator software and hardware development for COVID-19 patients.
- Worked in Project Sanjeevani, a pulse dose delivery system for COVID-19 Patients.

### Mechatronics Engineer Aliyance Mechatronics

01/2018 - 08/2019

Ahmedabad, India

#### Achievements/Tasks

- Worked for India's 1st RoboSumo - a project awarded to Govt. of Gujarat, India.
- Worked as Technical head for electronics team for RoboSumo project guiding interns.
- Worked on prototyping and developing different robots for the RoboSumo including AMY-waiter robot, Robo Soccer, Painter robot, Badminton Robot, Robo Kitchen, Robo Cafe, Technical Documentation of RoboSumo for GCSC officials.

### Automation & Production Engineer Rasik Industries

06/2017 - 12/2017

Ahmedabad, Gujarat

#### Achievements/Tasks

- Worked on automation of special purpose machines such as automatic surface grinder and automatic stamp machine to stamp products.

## PERSONAL PROJECTS

### Solar Panel Cleaning System

- Funded by Government of Gujarat in Incubation Center (Funding of 6 lakhs)

Drowsiness Detection System for Driver Safety

Laser Cutting Machine for Wood Cutting

Fire Detection Robot using Image Processing

Impulse System of Heat Treatment of Furnaces

## EDUCATION

### B.E - Mechatronics

Ganpat University

01/2018

Mehsana, Gujarat

## SKILLS

Robot Development

ROS

Internet Of Things

Python, C

Drone

Automation

PyQt5

AI / ML

Linux

Image Processing

Flask

Computer vision

HTML

FFT

Prototyping

Matlab

Product Development

Project Execution

Project Management

Jetson nano

PyTorch

Embedded hardware and software

Arduino

RaspberryPi

Tensorflow

Keil, Proteus

Object Detection

PCB Design

SOLIDWORKS

## CERTIFICATES

Interactive Python Dashboards with Plotly and Dash

Getting started with Embedded AI / Edge AI

Master of Fourier Transform and its Applications

Build your own Super Computer with Raspberry Pi

## ACHIEVEMENTS

First Position in RoboCopter conducted by GTU

First Position in Multi Rotor and 2nd Position in Aero Stunt and Convergence

Participated in Aero Modeling event by IIT-Mumbai for 3 consecutive Years

First Position in GoDroneX event 2019 of GTU

## LANGUAGES

English

Full Professional Proficiency

Hindi

Full Professional Proficiency

Gujrati

Full Professional Proficiency

## INTERESTS

Learning new technologies

Exploring new sensors and development boards

Music

Drone Flying