

# Dhananjay Thakur

Mechatronics Engineering Undergraduate

Seeking Job opportunities at your company, which will allow me to realize the full potential of my talents and expertise and collaborate with the company to achieve its goals and objectives and strive towards betterment and excellence in the sector.

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Chandigarh

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## EDUCATION

### B. Tech in Mechatronics

Thapar Institute of Engineering and Technology

07/2019 - Present 8.0 CGPA (Uptil 6th semester)

Courses

- MANUFACTURING PROCESSES
- ROBOTICS ENGINEERING
- MEDICAL IMAGE PROCESSING AND DEVICES
- ANALOG AND DIGITAL CIRCUIT DESIGN
- RAPID MANUFACTURING
- INNOVATION AND ENTREPRENEURSHIP

### Senior Secondary Education

Bhavan Vidyalaya Chandigarh

03/2017 - 03/2019 CBSE Board | Aggregate : 79.95%

Courses

- Physics, Chemistry, Maths

### Secondary Education

Bhavan Vidyalaya Chandigarh

03/2016 - 03/2017 CBSE Board | CGPA: 9.8/10

## WORK EXPERIENCE

### Intern

SS INNOVATIONS

01/2022 - 07/2022 Gurgaon, Haryana  
Company aims to provide an advanced, cost-effective surgical robotic system to the world through the SSI Mantra Robotic System.

Achievements/Tasks

- Working on HMI, and integrating the system into the Medically Sold robotic cart system.
- Testing and Designing PCB Schematics.
- Automating Cart System using PLC control, Ether-CAT and Beckhoff Modules.
- Developing a concept of Noise Cancellation in Operation Theater.
- Received Stipend and LOR.

Contact : [linkedin.com/in/manish-thakur-63784397](https://www.linkedin.com/in/manish-thakur-63784397)

### Intern

Giaplus Medical Pvt Ltd

03/2021 - 08/2021 Mohali, Punjab  
Manufacturer of large fragment orthopedic implant, dental orthopedic implant & surgical orthopedic implant in Chandigarh.

Achievements/Tasks

- Learnt and assisted in designing department using solid works and solid edge cam softwares. Worked on 5 axis CNC, Wire cutting machine, Sliding head machine and other manually operated machine.

### Department Head (Suspension)

Ultron Motorsports

08/2019 - 01/2021 Thapar University, Patiala

Achievements/Tasks

- Learnt all the technical aspects of a car which includes Chassis, Powertrain, Suspension, Breaking and Steering.
- Suspension System development done on Lotus Shark software.
- Vehicle Dynamics Analysis on ADAMS and ANSYS software.

## SKILLS

NX/Solid edge/ Solidworks

Matlab

Embedded Systems

HMI GUI dev

PLC Programming

Lotus Shark Suspension

C / C++ / Python

Machine learning and AI

CNC

Medical Image Processing

Automation and Electronics

Product dev

Event Management

Finance

Marketing

## PERSONAL PROJECTS

### Oxygen Concentrator

- Designed a **working prototype** which could produce oxygen at a **Very Low Cost** that is **below 10k**. After obtaining results from the viable sources, were able to extract **255 ppm of DO**.

### Active Noise Cancellation in OT

- In order to **dampen the noise levels** and ensure surgeon comfort, an **ANC system** is developed where the ANC setup of speakers, resistors and Op-Amps to make various filters is installed in the **headrest of the surgeon's chair** so that a **quiet and stress-free experience** can be provided **during surgery**.

### Automatic Pill Dispenser

- Designed and **made an automatic pill dispenser** which is **reliable, economical, accessible to everyone**, durable and easy to use.

### Engineering and Design

- Project on **modeling, analysis, and optimization** of Crankshaft part of HONDA GX160 5.5 HP Engine.
- **Design** of **Drive Mechanism** and **Support Frame** for Force Pump driven by HONDA GX160 engine.

## ACHIEVEMENTS

In top 8% of 9,35,755 students registered for JEE MAINS Exam 2019.

Received highest marks in Mechatronics Branch in 6th Semester.

Actively participated in MUN's attending 25+ conferences.

Course Completion Certificates(link).

[shorturl.at/cwJPZ](https://shorturl.at/cwJPZ)

## LANGUAGES

Hindi

Native or Bilingual Proficiency

German

Limited Working Proficiency

English

Native or Bilingual Proficiency

Punjabi

Professional Working Proficiency