

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
- HUMANITIES FOR ENGINEERS
- 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

Management Analyst and Product Developer

Giaplus Medical Pvt Ltd

01/2023 - Present Mohali, Punjab

Achievements/Tasks

- Helped design the stock maintenance system with emphasis on workflow.
- Developed the production management system.
- Developed customised implant as a product.

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.

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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.

SKILLS

NX/Solid edge/ Solidworks Matlab Embedded Systems

HMI GUI dev PLC Programming Skill

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.

shorturl.at/cwJPZ

LANGUAGES

Hindi
Native or Bilingual Proficiency

English
Native or Bilingual Proficiency

German
Limited Working Proficiency

Punjabi
Professional Working Proficiency

INTERESTS

Golf

Music

Voluntary Services

Swimming