



DEVANSH GARG

MECHATRONICS ENGINEER

EDUCATION

UNDER GRADUATION

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY (NIT JAIPUR) - MALAVIYANAGAR, JAIPUR, INDIA
B. TECH, MECHANICAL ENGINEERING, 2019-2023
CGPA - 7.67/10.00

PRIMARY, SECONDARY AND HIGHER SECONDARY

JAYSHREE PERIWAL HIGH SCHOOL - CHITRAKOOT, JAIPUR, INDIA
(Formerly known as STEP BY STEP HIGH SCHOOL)
CBSE 12th (May 2019) - 93.4% Marks
CBSE 10th (May 2017) - 10 CGPA

PROFILE

CHARACTER CANNOT BE DEVELOPED IN EASE AND QUIET. ONLY THROUGH EXPERIENCE OF TRIAL AND SUFFERING CAN THE SOUL BE STRENGTHENED, AMBITION INSPIRED, AND SUCCESS ACHIEVED.

CONTACT

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Jaipur - 302019
Rajasthan
India

SOCIAL MEDIA

WEBSITE

devanshgarg.web.app

LINKEDIN

linkedin.com/in/devanshgarg31

GITHUB

github.com/DevanshGarg31

SCHOLARSHIPS AND AWARDS

ACHIEVED EXCELLENCE IN ACADEMICS AWARD

EXPERIENCES

ASSOCIATE SOFTWARE ENGINEER AT DROOM TECHNOLOGY PVT. LTD., GURGAON

LED DEVELOPMENT OF COMMUNICATION MICROSERVICES AT DROOM'S CANP TEAM, POWERING CROSS-COMPANY CAMPAIGN SCHEDULING VIA EMAILS, SMS, WHATSAPP, AND PUSH NOTIFICATIONS.
ENGINEERED 4-LEVEL CAMPAIGN SCHEDULER FOR PRECISE USER TARGETING BASED ON INTERACTIONS, OPTIMIZING ENGAGEMENT.
AUTOMATED ANALYTICS-DRIVEN COMMUNICATION PATHWAYS THROUGH TEMPLATES/RULES AND CRON JOBS, ENHANCING CAMPAIGN EFFICIENCY.

MECHATRONICS (ROBOTICS) ENGINEERING INTERN AT MORPHLE LABS PVT. LTD., BANGALORE

DEVELOPED WORLD'S FIRST FULLY AUTOMATED MICROTOME FROM SCRATCH TO MARKET READY STAGE

CO-CURRICULAR ACTIVITIES

ONLINE COURSES:

INTRODUCTION TO WEB DEVELOPMENT WITH PYTHON AND JAVASCRIPT

By Harvard University
100% GRADE

INTRODUCTION TO ARTIFICIAL INTELLIGENCE WITH PYTHON

By Harvard University
100% GRADE

USING PYTHON TO INTERACT WITH THE OPERATING SYSTEM

By Google Inc.
100% GRADE

CRASH COURSE ON PYTHON

By Google Inc.
98.5% GRADE

SYSTEM ADMINISTRATION AND IT INFRASTRUCTURE SERVICES

By Google Inc.
91.12% GRADE

SIMULATION ANALYSIS IN FUSION360

By Autodesk Inc.
100% GRADE

3D MODEL CREATION WITH FUSION360

By Autodesk Inc.
95.8% GRADE

DIGITAL MANUFACTURING WITH FUSION360

By Autodesk Inc.
98.33% GRADE

INTRODUCTION TO AERONAUTICS

By TuDelft University
100% GRADE

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EXTRA CURRICULAR ACTIVITIES

- SECURED 2ND POSITION IN IIID'S (INSTITUTE OF INDIAN INTERIOR DESIGNERS) JRC SPORTS CARNIVAL, 2023 IN TABLE TENNIS TOURNAMENT
- ORGANIZED RECRUITMENT SESSION FOR ZINE ROBOTICS CLUB AND ORGANIZED A TRAINING SESSION FOR THE SAME (FOR BATCH 2020, 2021, 2022)
- MEMBER OF THE NATIONAL SERVICE SCHEME OF MNIT, JAIPUR
- MEMBER OF THE ZINE ROBOTICS & RESEARCH GROUP OF MNIT, JAIPUR
- MEMBER OF THE CAM SOCIETY OF MNIT, JAIPUR
- SECURED 2ND POSITION IN NYU's CSAW HACK 3D, 2020. CONTRIBUTED TO THE PAPER, HACK3D: Crowdsourcing the Assessment of Cyber-Security in Digital Manufacturing
- SECURED 2ND POSITION IN TESSERACT EVENT IN ROBOTIX, KSHITIJ 2020 AT IIT KHARAGPUR, WEST BENGAL
- VOLUNTEERED FOR SOCIAL SERVICE AT PEOPLE FOR OPTIMUM SOCIAL HEALTH AND NUTRITION
- LEAD MEMBER OF THE ORGANIZING COMMITTEE FOR RUBIKS CUBE COMPETITION AT JAYSHREE PERIWAL HIGH SCHOOL
- SECURED 1ST POSITION IN THE ROBOQUEST COMPETITION DECEMBER 2015, ORGANIZED BY TIE RAJASTHAN
- QUALIFIED FOR FLL INDIA WORLD CLASS NATIONAL CHAMPIONSHIP 2014
- SECURED 2ND POSITION IN THE INDIAN ROBOT OLYMPIAD 2014 AND QUALIFIED FOR REPRESENTING INDIA AT THE WORLD ROBOT OLYMPIAD 2014 AT SOCHI, RUSSIA

COURSEWORK

- CALCULUS AND LINEAR ALGEBRA
- QUANTUM PHYSICS
- BASIC ELECTRONICS AND ELECTRICAL ENGINEERING
- MICROECONOMICS
- COMPUTER SCIENCE AND PROGRAMMING WITH C
- ENVIRONMENTAL SCIENCES AND ECOLOGY
- COMPUTER-AIDED ENGINEERING DRAWING
- COMPUTER INTEGRATED MANUFACTURING
- THERMODYNAMICS
- HEAT TRANSFER
- FLUID MECHANICS
- TURBOMACHINERY

SKILLS

- 3D PRINTER, AUTOCAD, CAD, CAM, CAE, CAED, FUSION 360
- ARDUINO, GAZEBO, RASPI, ROS, SLAM
- C, C++, CSS, HTML, JS, PHP, PYTHON
- BOOTSTRAP, DJANGO, FLASK, LARAVEL, REACT
- COMPUTER VISION, NEURAL NETWORKS, NLP
- BLENDER, KEYSHOT, ILLUSTRATOR, PHOTOSHOP
- APACHE DRUID, APACHE KAFKA, DIVOLTE, ELK STACK
- MARIA DB, MONGO DB, ROBO3T, WORKBENCH
- MICROSERVICES, POSTMAN, RESTFUL API
- JIRA, OPEN PROJECT, SLACK
- ANDROID, IOS, MACOS, WINDOWS, UNIX

LANGUAGES KNOWN

- ENGLISH
- HINDI
- BASIC FRENCH

SPORTS ENGAGED IN

- YELLOW BELT IN TAEKWONDO
- TABLE TENNIS
- BASKETBALL
- LAWN TENNIS

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TEST SCORES

• JEE ADVANCED 2019:
RANK (GENERAL) - 14326

• JEE MAINS 2019:
RANK (GENERAL) - 16316
PERCENTILE - 98.5744466

- REFRIGERATION AND AIR CONDITIONING
- MATERIAL SCIENCES
- ENGINEERING MECHANICS
- KINEMATICS AND DYNAMICS OF MACHINES
- MECHANICS OF SOLID
- DESIGN OF MACHINERY ELEMENTS
- MECHANICAL MEASUREMENT AND CONTROL SYSTEM
- INDUSTRIAL ENGINEERING
- OPERATIONS PLANNING AND CONTROL
- TOTAL QUALITY MANAGEMENT
- OPTIMIZATION
- PRODUCT DESIGN AND DEVELOPMENT
- IC ENGINES
- AUTOMOBILE ENGINEERING
- CASTING, FORMING AND WELDING
- ADVANCED MANUFACTURING PROCESSES
- MECHANICAL VIBRATIONS
- BASIC MANAGEMENT
- INDUSTRIAL TRAINING
- MECHATRONICS DESIGN
- DESIGN OF MECHANISMS
- NEURAL NETWORKS
- ENTREPRENEURSHIP DEVELOPMENT
- COMPUTATIONAL FLUID DYNAMICS
- COMPOSITE MATERIALS
- NUMERICAL METHODS
- OPERATING SYSTEMS

Devansh Garg

Mechatronics Engineer

Portfolio Website: <https://devanshgarg.web.app/>

Work Email ID: devansh.garg@droom.in

College Email ID: 2019ume1883@mnit.ac.in

E-66

Hanuman Path

Shyam Nagar

Jaipur - 302019

(+91) 9782530178

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EXPERIENCE

Droom Technology Private Limited, Gurgaon — Associate Software Engineer

JUNE 2023 - PRESENT

Led development of Communication Microservices at Droom's CANP Team, powering cross-company campaign scheduling via emails, sms, whatsapp, and push notifications.

Engineered 4 Level Campaign Scheduler for precise user targeting based on interactions, optimizing engagement.

Automated analytics-driven communication pathways through templates/rules and cron jobs, enhancing campaign efficiency.

CAM Society, MNIT Jaipur — Member

NOVEMBER 2021 - JUNE 2023

Developing a data acquisition system that gathers data about the force an infant's foot applies on a Clubfoot correction brace that we are developing.

ZINE Robotics and Research Club, MNIT Jaipur — Member

SEPTEMBER 2019 - JUNE 2023

Conducted workshops, orientation and recruitment sessions. Participated in various events and competitions globally. From designing CAD models to writing embedded system codes, or from being a mentor to designing posters and hosting interactive sessions and hackathons, it involved managing the team, collaboratively working with it and developing products and robots that benefit the society as a whole.

Assisted research scholars working at the RAMAN Lab of MNIT.

Morphle Labs Pvt. Ltd., Bangalore — Mechatronics (Robotics) Intern

JUNE 2022 - DECEMBER 2022

Developed the World's First Fully Automated Microtome to a market-ready stage under the R&D Team.

HONORS

Excellence of Academics Award, 2016

Runner-up at Indian Robot Olympiad, 2014

Represented India at World Robot Olympiad, 2014 held in Sochi, Russia

Global Runner-up at NYU's Hack3D, 2020

Runner-up at Tesseract, Kshitij 2020 hosted by IIT Kharagpur

Winner at Roboquest Competition, 2015 hosted by The Indus Entrepreneurs, Rajasthan

Participated in LNMIIT's Plinth, 2014: Line Following Robot competition

Participated in Indian Robot Olympiad, 2016

LANGUAGES

English, Hindi, Basic French

EDUCATION

Malaviya National Institute of Technology (NIT Jaipur), Jaipur —
Bachelor's of Technology in Mechanical Engineering

JUNE 2019 - JUNE 2023

Jayshree Periwal High School (formerly known as Step By Step High School), Jaipur — CBSE

APRIL 2004 - MAY 2019

RELEVANT PROJECTS

Robot for World Robot Olympiad — PID Line Following, Grabbing and Placing

Designed and developed a line-following robot that can detect debris, grab them in a tray and pass them on to another line-following robot where they are disposed-off properly.

Minesweeper Solver — PID Line Following, Search Algorithm

Designed and developed a line-following robot that detects ambush/safe nodes of a grid using RFID. Leveraging BFS, it then finds the shortest traversal path from the start to the target point.

Improved Controller for Bipedal Robots — Control Theory

Read a [dissertation](#) on bipedal control algorithms and suggested further [improvements](#) that can be made to the controller to Prof. Andy Ruina at CMU.

Cybersecurity challenges in Additive manufacturing — Simulation (CAE), G-code, Analysis

Reconstructed an obfuscated CAD model of a deformed Lego brick from its mesh file. Conducted Static Stress Analysis on it to conclude its dimensions and the weight applied to the model. Contributed to the paper, [HACK3D: Crowdsourcing the Assessment of Cybersecurity in Digital Manufacturing](#)

RELEVANT COURSES

Control System Design: A first look — by MITx

Introduction to Aeronautical Engineering — by TUDelft