

Dixita A. Yadav

Mechanical Engineering | Don Bosco Institute of Technology | Mumbai University

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Academic Details

Don Bosco Institute of Technology, Mumbai, India	Bachelor's Degree in Mechanical Engineering	2024
Elphinstone Fort College, Mumbai, India	Junior College	2020
St. Ignatius High School, Mumbai, India	High School	2018

Areas of Interest

- Material Extrusion based Additive Manufacturing (MEAM)
- Biomedical Devices
- Optical Systems for Space Applications

Experience

1. Space Application Center (SAC),
Indian Space Research Organization (ISRO), Ahmedabad. (June 2023- September 2023) *Researcher*
 - Design and development of Electro-Opto Module (EOM) for space exploration satellites.
 - Assisted in CAD modeling, structural integrity and thermal analysis.
2. Biomedical Engineering and Technology Innovation Centre (BETiC) Lab,
Indian Institute of Technology - Bombay (IITB), Powai, Mumbai. (January 2023 - February 2023) *Research Intern*
 - Conducted systematic survey for the development of *smart splints*, a biomedical device to assist in healing fractures.
3. Rapid Manufacturing (RM) Lab,
Indian Institute of Technology - Bombay (IITB), Powai, Mumbai. (June 2022 - August 2022) *Project Intern*
 - Assisted in development of a Cable Driven Parallel Robot (CDPR).
 - Contributed in the development of an Electric Hammer for Stress Relieving in metal AM.
 - Conducted Systematic Research & Analysis on GARUDA (The Manned Drone Project).
4. The Indian Railways, Parel, Mumbai. (February 2022 - March 2022) *Visiting Intern*
 - Exposure to the overhauling cycle of Loco Diesel - Electric Engines, and Shunting Engines.
 - Inspection of Turbo Machineries, ICFs, LHBs, FIPs and Traction generators.

Projects

- 3-Axis Scissor Kinematics based Motion System.
- Spacetronauts- UI/UX Design & Game Development. (*Available on Playstore*)

Publications

Hemant Hogade, Dixita Yadav, Varad Kadam and Abhishek Dagade, "An Investigation of Threaded Insert Performance in Additively Manufactured Parts", In 9th International & 30th All India Manufacturing Technology, Design and Research Conference (AIMTDR), Indian Institute of Technology (IIT) BHU, Varanasi, India. (*Under Review*)

Positions of Responsibility

- Mad-Gear Motorsports Club, DBIT- Treasurer & Admin Head, Social Media Manager, Founding Member.
- Xanthium Racing, DBIT- Chassis Head.
- Literary Society, DBIT - Head Designer.