



PRANIT RAJENDRA MAGDUM

B.Tech. - Mechanical Engineering
- MITAOE

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Pune, Maharashtra, India - 411018



BRIEF OVERVIEW / CAREER OBJECTIVE / SUMMARY

Has an open mind and a flair for interacting with people from diverse backgrounds. A curious and passionate individual, who is eager to learn and dive deep into the subject matter. Seeks a nurturing environment that provides active mentorship and supports individual and collective growth and perseverance.

KEY EXPERTISE / SKILLS

Leadership Skills Teamwork SolidWorks AutoCAD Python Robotics ANSYS Manufacturing 3D Printing
Design for Manufacturing Manufacturing Processes Manufacturing Techniques Additive Manufacturing Team Management
Communication Skills Public Speaking

EDUCATION

Dr. Vishwanath Karad MIT World Peace University (MIT-WPU)

2019 - 2023

B.Tech. - Mechanical Engineering - MITAOE | CGPA: 8.66 / 10.00

Yashwantrao Chavan Polytechnic

2020

Diploma | Diploma - Mechanical Engineering | MSBTE | Percentage: 92.31 / 100.00

Chate English Medium School, Jaysingpur

2017

10th | MSBSHSE | Percentage: 92.20 / 100.00

INTERNSHIPS

MIT ACADEMY OF ENGINEERING

01 Jun, 2022 - 31 Jul, 2022

Trainee Engineer

Key Skills: Robotics Manufacturing Management

Mukkudal Robotics

07 May, 2021 - 05 Jun, 2021

Trainee Engineer

Key Skills: Mobile Robotics Robotics

Swift Enterprise Pvt.Ltd

12 May, 2019 - 21 Jun, 2019

Trainee Engineer

Key Skills: CNC Machine CNC Programming Manufacturing Management Field Work

PROJECTS

CLASSIFICATION OF FRUIT TYPE BY COLOUR

02 Nov, 2022 - 07 Nov, 2022

Mentor: Prof. V.B. Kulkarni | Team Size: 2

Key Skills: Simulation Robotics Coding Image Processing Webots

Classification of Fruits are done in Webots Software. Actual Model of fruit classification is also done for 2 different fruits using Image Processing.

AUTOMATIC AGRICULTURAL PESTICIDE SPRINKLING ROBOT

16 Aug, 2021 - 17 Oct, 2022

Mentor: Dr.Preetam Kalos | Team Size: 4

Key Skills:

Robotics Automation Electronics Design SolidWorks Team Management Teamwork Presentation Skills Manufacturing
Problem Solving Arduino

We have done a flexible, Remote Controlled using Android phones, automated spraying robot. The robot is designed to spray pesticide directly onto individual leaves minimizing wastage of chemical spraying.

ROBOCON 22: DESIGN, CALCULATION AND DEVELOPMENT OF ROBOTS FOR GIVEN PROBLEM STATEMENT

11 Oct, 2021 - 17 Jul, 2022

Mentor: Prof.S.A.Khandekar | Team Size: 19

Key Skills:

Robotics SolidWorks AutoCAD Problem Solving Teamwork Work Management Mathematics Design Arduino UNO Documentation Technology Technical Documentation Manufacturing Additive Manufacturing 3D Printing

Design and Development of Two robots to perform the given task as per the Theme of Lagori Game. The task of one robot is to Break the Lagori Discs and The other Task is to pile the Lagori Discs.

DESIGN AND DEVELOPMENT OF TWO SPEED GEAR BOX FOR AGRO MACHINERY

15 Jul, 2020 - 15 Oct, 2020

Mentor: Prof.B.A.Tare | **Team Size:** 5

Key Skills: Design Mechanical Testing Gearbox Team Leadership Mechanics of Materials Engineering Mathematics

Two Speed gearboxes have provisions for several inputs and several outputs, unlike one input and one output of a conventional gearbox. It allows the choice of varied speeds to the inputs. These gearboxes can be used in a lot of practical applications.

MODIFICATION IN MINI CNC MACHINE USING ARDUINO

Mentor: Prof.B.R.Patil | **Team Size:** 4

Key Skills: Arduino Robotics Arduino UNO Electronics CNC Machine

Done modification in Mini CNC Machine using Arduino Uno which can be used for various different applications like Sketching 2D Images, Draw Letter, Laser Engraving, etc

PUBLICATIONS / RESEARCH / WHITE PAPERS

DESIGN AND DEVELOPMENT OF TWO SPEED GEAR BOX FOR AGRO MACHINERY

16 May, 2020

International | International Research Journal Of Modernization In Engineering Technology And Science | **Mentor:** Prof.B.A.Tare | **No. of Authors:** 5

Key Skills: Design SolidWorks Mathematics Gearbox Gears Machine Design

Two Speed gearboxes have provisions for several inputs and several outputs, unlike one input and one output of a conventional gearbox. It allows the choice of varied speeds to the inputs. These gearboxes can be used in a lot of practical applications.

ACHIEVEMENTS

- o Achieved 2nd Rank in Paper Presentation Competition at National Level
- o Achieved 100/100 in Strength of Materials and Theory of Machines in Second year Polytechnic
- o Achieved AIR-3 with 99/100 in 1st stage of DD Robocon 2022
- o Achieved AIR-6 with 94/100 in 2nd stage of DD Robocon 2022

ASSESSMENTS / CERTIFICATIONS

Basics of Mechatronics

Key Skills: Mechatronics Hydraulics Pneumatics

Fundamentals of GD & T

Key Skills: Engineering Drawings Machine Design GD & T

AutoCAD

Key Skills: Drawing Engineering Drawings 3D Modeling 2D Design AutoCAD

MS-CIT

Key Skills: Computer Skills

Introduction to Programming using Python

Aggregate: 82.0 / 100.0

Key Skills: Python

SEMINARS / TRAININGS / WORKSHOPS

Industrial 3D Printing Technology Institute Name: Skyy Rider Institutions

20 Aug, 2020 - 20 Aug, 2020

Key Skills: Additive Manufacturing 3D Printing 3D Modeling SolidWorks

3D Printing Technology

06 Dec, 2019 - 06 Dec, 2019

Institute Name: I3DMINDS

Key Skills: 3D Printing 3D Modeling Additive Manufacturing CATIA

Robotics

Institute Name: MIT ACADEMY OF ENGINEERING ALANDI

Key Skills: Robotics Mobile Robotics Arduino Electronics

Entrepreneurship Awareness Camp

Institute Name: Maharashtra Centre for Entrepreneurship Development

Key Skills: Entrepreneurship Public Speaking

PERSONAL INTERESTS / HOBBIES

- Collecting World Banknotes and Coins
- Singing
- Cricket

WEB LINKS

- LinkedIn - https://www.linkedin.com/in/pranit-magdum-5032b1167?lipi=urn%3Ali%3Apage%3Ad_flagship3_profile_view_base_contact_details%3BNvhMvv93SHWncT2cCp24ew%3D%3D

PERSONAL DETAILS

Gender: Male

Marital Status: Unmarried

Current Address: New Mhada Colony, 8A 402, Krushna Building, Morwadi, Pimpri-411018, Pune, Maharashtra, India - 411018

Emails: pranit.magdum@mitaoe.ac.in , pranitmagdum10@gmail.com

Date of Birth: 24 Apr, 2001

Permanent Address: A/P Umalwad Near Jain Temple, Umalwad, Tal-Shirol Dist-Kolhapur, Kolhapur, Maharashtra, India - 416101

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REFERENCES

- Prof.B.A.Tare**
(Vice Principal, DKTE'S Yashwantrao Chavan Polytechnic, Ichalkaranji)
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