



Mohanraj A

Roll No.: AM23S055

M.S. by Research

Applied mechanics and Biomedical Engineering

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.S.	Indian Institute of Technology, Madras	8.0 (Current)	2023-Present
B.E.	VIT, Vellore	9.13	2022
Higher Secondary	Tamil Nadu State Board	91.0%	2018

RESEARCH WORK AND ACADEMIC PROJECT

- Geometry, Mechanics and Control of Scissor linkages** September 2023 - *
IIT Madras
 - Understanding the mechanics of Scissor linkage mechanism
 - Transforming the mechanism to a desired curve
- Universal Tensile Testing(UTM) Machine** January 2022 - May 2022
VIT ,Vellore
 - Portable UTM: Compact, lightweight design for versatile testing environments.
 - Cost-effective Solution: Smaller footprint, swappable components reduce operational expenses
 - Enhanced Calibration: Arduino-based method ensures accurate strain measurement reliability.

JOB EXPERIENCE

- Accenture** August 2022 - August 2023
Chennai
 - As Java junior developer, collaborated to develop and maintain applications, focusing on coding, debugging, and implementing new features to support project objectives

CERTIFICATIONS

- Satellite Altitude Dynamics and Control** March 2022
Online Course
 - NPTEL Certification (Topped the exam)
- Mechanics and Control of Robotic Manipulators** March 2022
Online Course
 - NPTEL Certification

SKILLS

- Programming:** python, Java, MATLAB
- Simulation Tool:** ANSYS
- Modelling:** Solidworks, Fusion 360
- Writing tools:** L^AT_EX

KEY COURSES TAKEN

- Computational methods in mechanics:** AM5600
- Non-linear dynamics:** AM5650
- Stochastic processes in mechanics:** AM5340
- Bioinspired engineering:** AM5535

POSITIONS, ACHIEVEMENTS, AWARDS

- Technical Team Member,** Team Sammard, VIT Vellore June 2019 - May 2021
 - Participated in ABU Robocon 2020 Nationals and secured 7th Rank
 - Team Sammard's science payload bagged 13th position (out of more than 100 teams) internationally in cansat 2021 competition.
- Designed rocket's aerodynamics for SA Cup competition that reached altitude of 3 km
- Won "Special Achiever award" for the year 2021-22 based on exemplary performance at various International events representing VIT Vellore