



# ADITYA MAJALI

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Nationality: Indian

Languages: English(C2) | German(A2)

## EDUCATION

### RWTH Aachen University

Master of Science | *Robotic Systems Engineering*

Oct. 2022 – Present

Aachen, Germany

### Birla Institute of Technology and Science, Pilani

Master of Science | *Physics*

Bachelor of Engineering | *Mechanical Engineering*

Aug. 2017 – Aug. 2022

Pilani, India

Grade - 7.03/10.0

## WORK EXPERIENCE

### University of Auckland, New Zealand

Student Researcher ([Link to Lab Homepage](#))

January 2022 – May 2022

Thesis Report

- Worked on simulating fully actuated robotic hands in the MuJoCo physics engine.
- Additionally, we compared the position of the grasped object after mapping the robotic hand movement in real life to the movement in the MuJoCo engine.

### National Institute of Technology Surathkal, India

Student Researcher

August 2021 – December 2021

Thesis Report

- Worked on the Modelling and Simulation of Lower Limb Exoskeleton. Utilized MATLAB, Simulink and Simscape to model the human upper body and integrated it with the lower body.

### Henkel Adhesives Technologies India Private Limited

Summer Intern

May 2019 – July 2019

- Recommended measures to increase production and cut down on transportation costs at the factory.
- Analyzed the factory's warehouse storage capacity and transportation patterns and recommended measures to increase capacity.

## SKILLS SUMMARY

**Programming Languages:** Python3(Numpy, Matplotlib, Pandas, Tensorflow), C++, MATLAB, HTML5

**Analysis and System Modelling:** ANSYS (Mechanical), MuJoCo, Simulink, Simscape

**Design and Modelling:** SolidWorks, AutoCAD, Autodesk Fusion 360

**Miscellaneous Software:** LaTeX, Microsoft Office, Adobe Premiere Pro

## PUBLICATIONS

- 2022** Majali, A., Mulay, A. , Iyengar, V., Nayak, A. and Singru, P. Fault Identification and Remaining Useful Life Prediction of Bearings using Poincare Maps, Fast Fourier Transform and Convolutional Neural Networks. *Mathematical Models in Engineering* [<https://doi.org/10.21595/mme.2022.22364>]