

# Aditya Suresh Nale

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Address: Pune, Maharashtra

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## Summary

Mechanical Engineering student with strong foundations in mechanical engineering principles, CAD, and programming.

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## Education

B.E. Mechanical Engineering  
Current CGPA (3rd Year): 7.79

Sinhgad College of Engineering, Pune  
2022-2026

H.S.C.  
Percentage: 83.83

MIT Jr. College, Pune  
2019-2021

S.S.C.  
Percentage: 79.40

St. Anthony High School  
Completed: 2019

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## Skills

- CAD:
    - Proficient in Onshape for 3D modelling and assemblies.
    - Used it for academic projects and design assignments.
  - Electronics:
    - Proficient in working with microcontrollers (Arduino, esp8266) for embedded systems projects and IOT.
    - Hands-on experience with interfacing sensors and actuators in academic projects.
  - Programming Languages:
    - C, C++ (used with software projects and microcontroller programming)
    - Python (data analysis using pandas, numpy and scipy for numerical methods)
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## Projects

### Adaptive Robotic Gripper

Designed a robotic gripper capable of adjusting its grip based on the shape of the object being held. Created multiple design iterations in **Onshape** to fix issues. Used **arduino** and servo motors to create a working prototype. It received 1st place in the college's Project Based Learning competition.

### Physics Simulation Program

Developed a program in **C** that takes 2D velocity vectors as input and visualizes the resulting motion in real-time using SDL. Available at <https://github.com/aditya-95/PBL>

### RFID Attendance Logger

Developed a fully automated RFID based attendance logger using MFRC522 sensor and **ESP8266** which transmits card data to a **python** HTTP server. The server listens to incoming requests and stores data in a SQLite3 database with a simple web interface for searching the records.