NAMAN VYAS

Ahmedabad, Gujarat, Bharat | naman.amplifier@gmail.com | +91-9408778829 | linkdin.com/naman-vyas-4a25401b0

EXPERIENCES

EXIDE ENERGY PRIVATE LIMITED | *Graduate Engineering Trainee (GET)* **06/2023 – Present**

- Working in R&D department, Testing and Validation of Battery Packs
- Stationary Telecom Battery Pack assembly, Failure test, Observation, Rework and Dispatch
- Authenticating Battery Management System communication
- Assisting Senior Engineer with other Projects
- Received Best Team Award for Battery pack readiness and UL Certification
- DC Cabling Work and Wire Harness Routing
- Worked with Different types of lithium ion cell chemistries NMC, LFP and LCO.
- Performed various Protection test of battery packs like, Over Voltage test, Short Circuit Test, Reverse Polarity test, Over- Under Temperature Test and Thermal Propagation test.
- Proto build, First hand Battery packs for mechanical design and electrical calculation validation

INDIAN INSTITUTE OF TECHNOLOGY, GANDHINAGAR | *Research Intern* **07/2022 – 06/2023**

- Aligned with SYSIDEA Robotics Lab, Making the Robotic Actuator for smooth Robot Operations
- Integration of different Speed and Current measuring sensors
- Working on DC and BLDC Motors with Their Driver circuit to enhance the efficiency.
- Creating Research setups for Lab's Development Activity
- Worked on Adaptable Gripper Design and Motor Calibration with Spring

GTU ROBOTICS CLUB | *Robot Design and Manufacturing Leader* **08/2019 – 05/2022**

- My role was to design robot's drivetrain and mechanisms and build prototypes.
- Guide and Teach CAD Designing software to junior teammates.

PROJECTS

DESIGN AND DEVELOPMENT OF ROBOTIC ACTUATOR | *Internship Project*

- To build a working prototype of A Robotic actuator which have rotary encoders, Geartrain and motor driver.
- For early stage prototype a DC motor with custom designed geartrain and absolute encoder were used
- In this project Solidworks, EasyEDA and Arduino software were utilized.
- In further a design of compliant actuator was done, A series elastic element was introduced in the Design.

Multi Robot System for Lagori Breaking and Piling | *Team Project at DD National* Robocon

- Task was to build two Mobile Robots that can play Traditional Indian Street game named as "LAGORI".
- Periphery sensors like mini-Lidar, Intel Real Sense Camera, Magnetic Encoders, Lid Switch, Pressure controller, PS4 Remote control (To operate robot from distance)
- Arduino mega2560 and ESP32 wroom Development board
- Arduino C and Python as programming language were practiced
- Lithium Polymer battery and compressed air in the bottle were used as energy resources for Robot.

Smart Attendance Management System | *Personal Project* | *Funded by SSIP Govt. of Gujarat*

- I pitched the idea to Student Startup Innovation Policy at college, got funding to build the project.
- With guidance of the faculty a proof of concept was made with Raspberry pi 4
- Prototype was built in python with the help of Open CV and face recognition libraries.

EDUCATION

GUJARAT TECHNOLOGICAL UNIVERSITY | *Chandkheda, Ahmedabad.* **06/2019 – 06/2023**

- Bachelor of Engineering in Electrical Engineering **CGPA:** 7.6/10 (***First Class with Distinction)***
- Active core Team member of IEEE VGEC Student Branch in the Photography and Video shooting Sub Department
- Supported Team to Organizing technical or non – technical events

SHREE SWAMINARAYAN HIGH SCHOOL | *Bhavnagar, Gujarat.* **05/2017 – 05/2019**

- Higher Secondary with Science Stream (Physics, Chemistry, Mathematics, English)
- HSC **CGPA:** 7.8/10