

# THE NEWS LETTER



TEAM NEQUIT 5.0

“WE DESIGN  
WE BUILD,  
WE RACE”



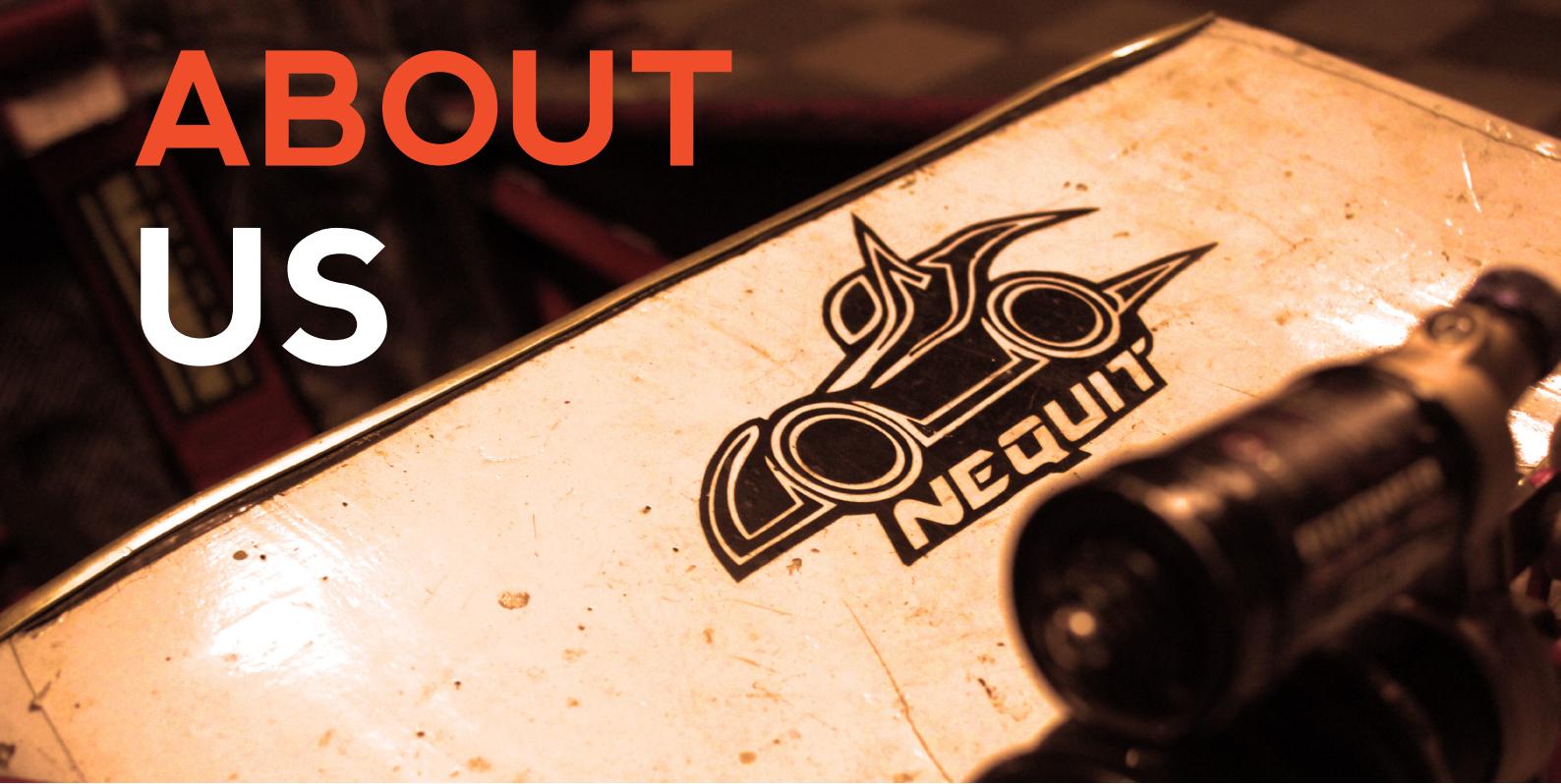
# NEVER QUIT



STAY CONNECTED



# ABOUT US



## What is TEAM **NEQUIT** ?

It is a group of enthusiastic Undergraduate Engineer's of Rajarambapu Institute of Technology. We design, build, test our car and compete against teams from all over India, in international events such as Supra SAEINDIA and Formula Bharat etc. We work as a team to achieve goals.



Shot on OnePlus  
By mr.pool

## Dr. Sanjay Kumbhar

Head of department, Automobile Engineering  
Rajarambapu Institute of Technology



*"Firstly, I would like congratulate Team NEQUIT for this wonderful initiative through which they are going to exhibit the functioning and activities carried out during their journey towards success. Since the inception, the team under the guidance of Prof. Y. S. Patil has really worked hard and in every year, they participated in various events and grabbed prizes as team as well as individual levels. To build a motorsport car involves the participation from various disciplines like electrical, electronic, mechanical and automobile etc. The students working in team definitely put their whole hearted efforts and apply their theoretical knowledge into practical one. This is really an engineering activity, wherein they learn each and every aspect of project management, it's financial and execution right from fund raising, time and various resources management. The student engages day and night with enthusiasm and all the team members really enjoy the same. Their collective wisdom put in the motorsport events had fetched many laurels to the department. On behalf of RIT and Department of Automobile Engineering, wish them every success in their future endeavours."*



# TEAM NEQUIT

# 2021

# OBJECTIVES

- To create one of the best formula student car.
- To create a platform where upcoming engineers can share their technical as well as non technical knowledge over national as well as international platforms.
- Creating industrial environment & building up engineers following industrial practices.
- To give chance to apply classroom learning in the outside world.
- To technically nourish the students by combining their skills.

# ACKNOWLEDGMENT



## Mr. Abasaheb Pandurang Kale

Chief Executive Officer  
Sahyadri Farms Sustainable  
Grassroots Initiatives Limited



*"Team NeQuit - a true story of hardworking and sincere students ! A classic example of team work ! It was indeed my pleasure to know this team from RIT and after talking to them I was completely satisfied on the concerns raised on the dedication of the young undergraduate engineering students ! There success in building a fastest car is been displayed through presence at National level competitions and forums.*

*I have no doubt that they will be number one national team very soon and will represent India in International forums ! All the best !*

*Their collaboration DNA will bring them the success they are aiming for ! All the best !"*

## Mr. Manoj Gaikwad

Manager  
Taikisha Engineering India Private Limited



*"Team NeQuit is one of the most hardworking team that I have come across. This team has been working together for last 5 years and getting various awards at University as well national level.*

*During these years they have understood the importance of team spirit. Along with this their thought process is so strong that they were able to execute all the tasks and overcome the challenges. The work that they are doing has helped them get hands-on real industry experience. This will prove to be extremely beneficial for them in their near future.*

*My advice to this young and talented team is, they should get equipped with industry 4.0 and try to incorporate digital and technological aspect to their projects and enter into global competition. My best wishes to Nequit team for their future endeavours!!"*

## Prof. Manzoor Mirza

Assistant Professor, Mechanical Engineering  
Rajarambapu Institute of Technology



*"As usual I joined meeting before time and wondered to see all 60 expected attendees are present with silence. This was the first experience with this Disciplined, hardworking, devoted, enthusiastic group with full of energy. I appreciate their efforts and teamwork. The way they are working is the system to make industry ready engineering in true sense. It's cream of RIT. Culture they developed is amazing.*

*They are always ready to take everything which, we seniors offer, but with outmost modesty. Apart from this, I would suggest them to keep your team for always, after graduation also. You people can think of good business opportunities together. It is my duty to acknowledge your support to RAAH initiatives."*

# OUR EVENTS



## ENGINEERING DAY - QUIZ

On the occasion of Engineering day Team NeQuit organized Quiz related to automobile domain and the response for the particular quiz was very passionate with more than 650+ entries. All participants with more than 40% marks in quiz were awarded with certificates.

Rajarambapu Institute of Technology  
Sangli, Maharashtra  
An Autonomous Institute  
Accredited with "A" Grade  
by NAAC, UGC

Sir M. Visvesvaraya  
1860-1962

Celebrating  
Engineers Day

Technical QUIZ Competition

FREE

- Free of cost
- Open for all branches
- Official Participation E-Certificate

Contact  
Prathamesh Jamdade : +91 9765377028  
Harshada Patil : +91 9730608156

Date : 15 September 2020  
Time : 8am to 8pm

FOLLOW US ON

### Responses to TEAM NEQUIT QUIZ

CV QUIZ

Questions Responses 356 Total points: 15

356 responses

EV QUIZ

Questions Responses 300 Total points: 15

300 responses



## NEQUIT Presentation With Raah

We arranged a presentation with our Institute's Alumni Club i.e., RAAH (RIT Alumni Advisory Hub). That was a huge platform for us and **it was first collaboration meeting for Team Nequit 7.0.**

In this meeting, we presented the whole idea about what Team NeQuit is. We presented how this journey got started, what is team Nequit, our vision, path followed by team to build the car, technical and non-technical departments in our team.



The screenshot shows a video conference interface. At the top left, it says "RIT Alumni Advisory Hub - RAAH, India is presenting". At the top right, it shows "Asmit Chougule and 22 more" and the time "9:29 PM". The main title "RIT Alumni Advisory Hub (RAAH)" is in blue at the top center. Below it, the subtitle "18<sup>th</sup> Weekly Meeting" is in green. In the center, there is a large Raah logo. To the right, a grid of participant thumbnails is displayed, each with a name and a small profile picture. Some names include "You", "Vaishnavi Suresh", "APURV PILLAI", "Saurabh Patel", "JADEB AYUBICK", "Yugesh Reddanna", "shubham dangar", "Bhavin Chavhan", "Daksh Pradhan", "seetin kishmager", "Sameer Potdar", "Riddhi Shinde", and "RIT Alumni Advisory Hub -". At the bottom, there are hashtags "#ByAlumniForAlumni", "#RITAalumniNetwork", and "#NetworkIsNetWorth". The footer includes "Meeting details" and "Turn on captions".

We participated in different events like Formula Bharat competition, products designed by our members, the software's we use in our designing process, manufacturing, testing, the journey of the race car, the changes we made from 2014 to now for decreasing weight of the car and to make it more efficient, business presentation, cost presentation, our achievements, our proud Alumni, sponsorship and most importantly the main part which is our PMT (Project Management Tool ). All the members of RAAH liked our PMT and they appreciated the whole idea behind it. Then, we announced our Good Job Done cardholders for that month and completed our presentation.

# HOW TO BUILD A TEAM?

## - Rajesh Hulugade

Segment Leader - Roller Manufacturing  
 Schaeffler India Limited  
 Vadodara, Gujarat, India



We approached Rajesh Hulugade Sir to guide us and to help us build a team which can tackle every difficult situations, which can accomplish or achieve every setten goal. A Session was organized by Team Nequit with Hon. Rajesh Hulugade Sir in the presence of **Hon Director Mrs SS Kulkarni , Prof. Jugalkar, Prof. M.M Mirza and Prof. Y.S Patil.** The Session was organized for three weeks that was held on every Sunday. Sir Inspired us to build a effective team and how a team should be, about team management, about leadership etc. Sir stated "Teams are most effective when there is a mutual respect between members. Leaders are imperative in creating a culture of trust and respect. For example, leaders could generate mutual trust by rewarding behaviours that build trust and encourage individuals to lead by an example." This Session by sir led a helping hand to build a effective team. We put forth his words and tried our best to make the changes that were significant. Team Nequit was heartly thankful to Hon. Rajesh Sir

>> **BUILDING EFFECTIVE TEAM** <<

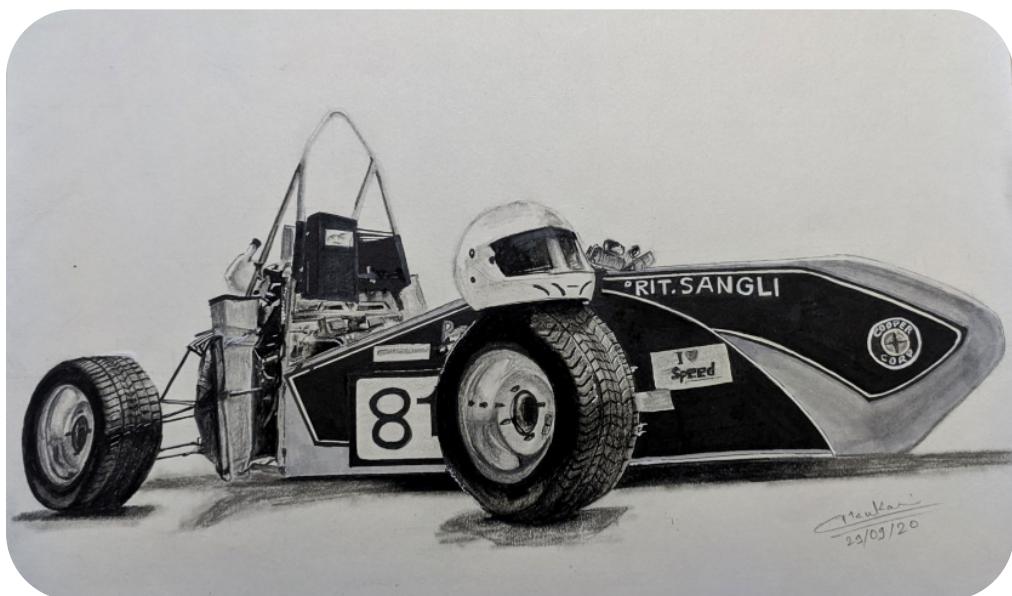
<ul style="list-style-type: none"> <li>❖ Team Building</li> <li>❖ Interpersonal Skill Development</li> <li>❖ Conflict Management</li> </ul>	11th October 18th October 25th October
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**Raah**  
IIT ALUMNI ADVISORY HUB

**NEQUIT**

## AUTO CULTURE..

Art and culture are the one of the most important part of our Indian society as each culture gives an opportunity to express our feelings and message in **form of art to promote unity among us individuals, irrespective of differences** in terms of various factors. Our team NeQuit has took the initiative to express our passion of art in innovative form to enrich our team co-ordination by emerging into moral, ethical, principled and productive team spirit.



**Art by -**

**Utkarsh  
Kulkarni**

**Art by -**

**Shubham  
Chobe**



# MEETING WITH EMINENT PERSONALITIES



## Mr. Vinod Kulkarni

Head  
Homologation & Regulations  
Great Wall Motor R&D Centre, India



On the occasion of Good Job Done Card Event of October & November month we **invited Mr. Vinod Kulkarni Sir.** In the event, Team firstly gave the presentation. He was really impressed by our ongoing work. At the end of event, he gave his words of advice in which he shared innovative information about research in Motors used in EV's.

He suggested some ideas about Motor which we **can use in our EV that are affordable and efficient.** At the end he ensured us that he will be always supportive to team whatever the team needs.

## Mr. Pankaj Jadhav

Electric Vehicle Engineer



We had arranged a meeting with Mr. Pankaj Jadhav Sir in which we had full pledged technical discussion on our current Electric Vehicle. He has a vast experience of working in this filed. He guided us on minute details, which we need to take in account while designing and manufacturing our EV. He suggested us variety of Motors which can perform best for our car. He also guided us on the BMS(Battery Management System) which is prime factor of EV.

Also, we had discussion on events like rain test, acceleration test, skid pad test, efficiency and endurance test. Overall, it was a great informative session with Mr. Pankaj Jadhav Sir.

# FSEV CONCEPT CHALLENGE

- The First Step Towards Electric Vehicle

This was our first time in our team when we were planning for manufacturing an electric car. This has led to an increased interest in vehicle electrification and foremost hybrid electric vehicles which can give best performance than conventional vehicles. Formula Student Electric Vehicle challenge was the one of the opportunities to have a first step toward electric vehicle. In our college life which can open door for bright future of our team, as it was new concept and new challenge for all the team members.

The 4th Annual FSEV Concept Challenge was an opportunity for us to conceptualize and design a Formula Student Electric Vehicle which meets the Formula Bharat 2021 Rules Package. This worked to built up our confidence and kept us firm to proceed for the designing actual electric vehicle.

The concept challenge was during period of Lockdown so we faced many difficulties for this challenge. Many online meetings were been held every day for the preparation. This was one of kind event which we were participating only in virtual mode. There were international teams which were also participating in this event. Even in such circumstances our members really tried their best and result was cherry on cake.

As it was our first attempt, we came out with the results which was a sign of good hope to manufacture an electric vehicle. We secured 3<sup>rd</sup> rank in FMEA (Failure Mode Effect Analysis) and 10<sup>th</sup> rank in Management report.

# NEW TRENDS IN AUTOMOBILE



## THE HOTTEST HATCH

Since 1957 Toyota has been a popular player in the **Motorsports Racing Series**. Ever since then, Toyota has significantly improved in various World Championship Series. Toyota has been winning titles since past few decades with their "TOYOTA GAZOO RACING" team. Having a deep experience building vehicles which are good for Track performance as well as for everyday use, Toyota's GAZOO RACING series has developed the GR YARIS. The homologation rally car.

Inspired by the Toyota's WRC, the GR YARIS uses all the necessary equipment that should be used by a rally car. Being reviewed by almost each and every autologger in the world, the GR YARIS is loved by automotive enthusiasts and petrol heads world-wide.





Powered by a Turbocharged 1.6 liter inline 3 cylinder engine which produces 257 horsepower at 6500 rpm and 370 Nm of torque from 3000 rpm to 4600 rpm. Power is delivered to all 4 wheels through a 6 speed manual transmission making the GR YARIS capable to reach

from 0 to 100 kmph in 5.5 seconds and electronically limited top speed of 227 kmph (142 mph). For experiencing the driving pleasure of the GR YARIS one could also opt for a torsen limited slip differential on front and rear axles by their optional 'CIRCUIT PACK' or else there is a 4 wheel drive open differential which comes as a standard equipment called as the 'CONVINIENCE PACK'.

The GR YARIS also uses 4WD Modes which control the torque distribution at front and rear based on the road surface conditions. There are three 4WD modes. Normal mode which sends 40% torque to the rear differential and 60% of it to the front differential which helps in vehicle control and easy maneuverability in city driving conditions. Then there's the Sport mode which sends 70% torque to the rear differential and 30% to the front differential to experience the driving pleasure. And there's the track mode which has equal torque distribution on the front and rear differential meaning it has a 50-50 setup which helps to enhance track performance. The GR YARIS also gets fully independent rear suspension to maximize traction around corners. GR YARIS uses aluminium body panels and a carbon fibre roof which helps to reduce the centre of gravity of the vehicle. In all the GR YARIS only weighs 1280 kilograms.

In short Toyota has developed a pure driver's car with one of the most powerful 3 cylinder engine with very agile and sharp handling characteristics which are good for daily use and very good for track use.

# PODIUM 2020

#1

LEWIS HAMILTON



1ST | PTS: 347 | WINS: 11 |  
PODIUMS: 14 | POLES: 10 | FL: 6 |  
RET: 0

#2

#3

VALTTERI BOTTAS



2ND | PTS: 223 | WINS: 2 |  
PODIUMS: 11 | POLES: 5 | FL: 2 |  
RET: 1

MAX VERSTAPPEN



3RD | PTS: 214 | WINS: 2 |  
PODIUMS: 11 | POLES: 1 | FL: 3 |  
RET: 5

## Jehan Daruwala

An up-and-coming racer from Mumbai, 22-year-old Jehan Daruwala recently made headlines when he won the Formula 2 race at the Sakhir Grand Prix, becoming the first Indian to accomplish the task..



Daruwala was pushed to the limit in the race by Daniel Ticktum and F2 champion Mick Schumacher, but he showed great resilience to come from behind and successfully hold off the pair.

Which is indicative of how the Indian driver has progressed since the beginning of the season, after being recruited into the Red Bull Junior Team to race for Carlin in his first season in the Formula 2.

His start to the season was understandably rocky, with 12th, 16th and 12th placed finishes in his first three races. His results continued in a similar vein for a while, barring one fourth-placed sprint finish at Silverstone where he narrowly missed, but it was in the home stretch of the season that Daruwala truly showcased his potential.

Daruwala, who remained with Carlin for post-season testing, doesn't want to disclose much about his future prospects but for the fact that he will remain in Formula 2 for another season.

Although he ended well, with a maiden podium finish last week and a win in his final race of the season, the Indian's season has been of the middling sort. He finished 12th in the Drivers' Championship, over a hundred points behind his teammate Yuki Tsunoda, who finished third overall. This wasn't all Daruwala's fault. His car had technical troubles for much of the first half of the season. While Daruwala was routinely among the fastest in qualifying, clutch issues meant he regularly got off to terrible starts in the actual race. He began finishing among the points only after his engine was changed midway through the season.

# GOOD JOB DONE CARD



From August 2020 Team started giving Good Job Done Cards for the best performer of the month for maintaining standard of work and motivating the rest of members to do the same. Evaluation is specifically based on some main key points such as communication, commitment, productivity, creativity & efficiency, etc. Tech Lead analyses working of every member in weekly feedback meeting of departments and based on this analyses Tech Lead evaluates every member. At the end of month, Tech Lead elects two of the best performers of the month from Combustion & Electrical based on their evaluation.

Sr. No.	NAME	TEAM DEPARTMENT	CLASS
1	Nitish Kumar Gupta	CAD/CAE	Automobile
2	Sakshi Phadtare	Cooling	Electrical
3	Apurv Pujari	Accumulator	Mechanical
4	Mansi Uthale	Business	Mechanical
5	Sakshi Hebbalkar	Tractive System	Electrical
6	Shubham Chobe	Suspension	Mechanical
7	Prathmesh Kharat	Accumulator	Electrical
8	Sakshi Wathare	Motor	Electrical
9	Rohit Kadam	CAD/CAE	Mechanical
10	Samad Pathan	Motor	Electrical

# ALUMNI FEEDBACK



## Laxman Jamdade

Brake Department



*"In the challenging era of science and technology, the formula student Motorsport event such as SUPRA SAE INDIA and Formula Bharat gives a national level platform to implement their engineering and management skills to compete in highly enthusiastic and challenging environment.*

*All participants came in this event with dedication to achieve best ranks and awards. I also get this opportunity to be part of these events through team Nequit. I specially thanks to Mr. Pranav Pawar for giving me responsibility of design and development of Brake System in 2016-17. We also grabbed best cost award in that year and achieved first milestone for team. Being team member of Nequit 2.0 & 3.0 I acquired various skills in field of Advance Welding, Manufacturing, Design and development which helps in my day-to-day work life.*

*I also wish team Nequit to achieve more and more milestones and keep the legacy of team Nequit which - "Never Quits".... started by Mr. Akshay Chavan.*

*Thank You."*

## Abhishek More

Engine Department

*"I joined the team in my second year and was a member until I passed out. After joining Team Nequit I started working in Engine department. I used to read different design reports in order to understand various design aspects. Our Captain Pranav used to send me to different places to meet business people and convince them to give sponsorship. Sometimes we returned empty handed and sometimes we were successful. Slowly I started coming out of my comfort zone and started supporting Ravi. These were my first lessons on effective communication which I learned from my teammate. Being part of the team gives you the opportunity to learn from observing your teammates. Team forces you to collaborate with others and observe their best qualities. I was very lucky to be surrounded by excellent teammates who taught me many skills which are part of my life.*



*When I started working as Engine and Powertrain head we used to face many problems in our system. To get to know these problems and to resolve them was very challenging job. Till date I use these techniques to resolve the issues in front of me. I became Captain of the team. We had a challenge to participate and perform for the first time at an event like Formula Bharat. Because of the hard work from all the team members, we performed excellent in that event. I was fortunate to be the driver of the team as well along with my co-driver Onkar, we completed the endurance race of 21 kms for the first time in the team's history, it was a dream come true for many hardworking team members from current and previous teams. It is quite an unforgettable moment for me when I crossed the chequered flag to complete the endurance. It was a memorable event. Along with many lessons and memories we managed to win "Rookie Team of the Year Award" which was given to recognize our excellent performance as a first time participating team.*

*Being part of the team is a big learning opportunity. You get to learn many skills which otherwise you will never learn just being a student. In your life you will face many difficult challenges, performing well in the team will give you the confidence to take on those challenges. Do your best and Never Quit.*

## Akanksha Lokare

Cost & Business Department



*"Motorsport requires dedication and passion to do well. Find a career you love, as you are a lot more likely to do the thousands of things it takes to be good if you love what you are doing. If that is racing, learn everything you can about it. The best at anything is those that understand it the best. Since racing is a fun, exciting field, there are lots of people that want to get into it, which makes it more difficult."*

*I worked in Engine and Transmission department, being part of this dynamic team, I would like to tell that I learned many more things not only in technical point of view but also how to behave in team, time management. I still remember those days in workshop, the place where i improved myself.*

*While working in team I learned these things-*

*We need to work to the team's strengths by allowing team members to do what they are good at doing and making sure you all follow a plan of action.*

*Communicate effectively, both by speaking to all other team members during the task or project and listening to what everyone is saying.*

*we need to be adaptable and flexible throughout any team task, as things can and often do change very quickly.*

*It was my pleasure to be a part of NEQUIT, never quitting team."*

# TEAM NEQUIT WORKSHOP



R 48MP AI DUAL CAMERA  
Shot by Saurabh



R 48MP AI DUAL CAMERA  
Shot by Saurabh





**Rajkumar**  
Industries



# APPEAL



"Individual commitment to a group effort is what makes a teamwork. Talent wins games, but teamwork and intelligence win championships." Team Nequit has been established in 2014 and progressing year by year with overwhelming success. Team Nequit is an official formula student team. Team Nequit is an organization to nurture your skills in all aspects. Team Nequit is one of the prime platforms in the college where you find your best version of yours. "It is the fuel that allows familiar, students to attain unfamiliar results."

Now we are starting our new season for our next upcoming event FORMULA BHARAT 2021 and we are shifting to an electric vehicle from combustion vehicle in the coming future, which we have already started. If you will be part of TEAM NEQUIT then you will not only improve your practice skills but also have a command over time management, team spirit and gives 'Never Quitting' ability which will help you in your future. "Failing and Learning to make a success out of it by Never Quitting".

## Faculty Adviser



**Prof.Y.S.Patil**

Assistant Professor  
Automobile Department

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