Netaji Subhas University of Technology

Formerly Netaji Subhas Institute of Technology

A.R.E.S.

Autonomous Rover using Embedded Systems

SPONSORSHIP PROPOSAL

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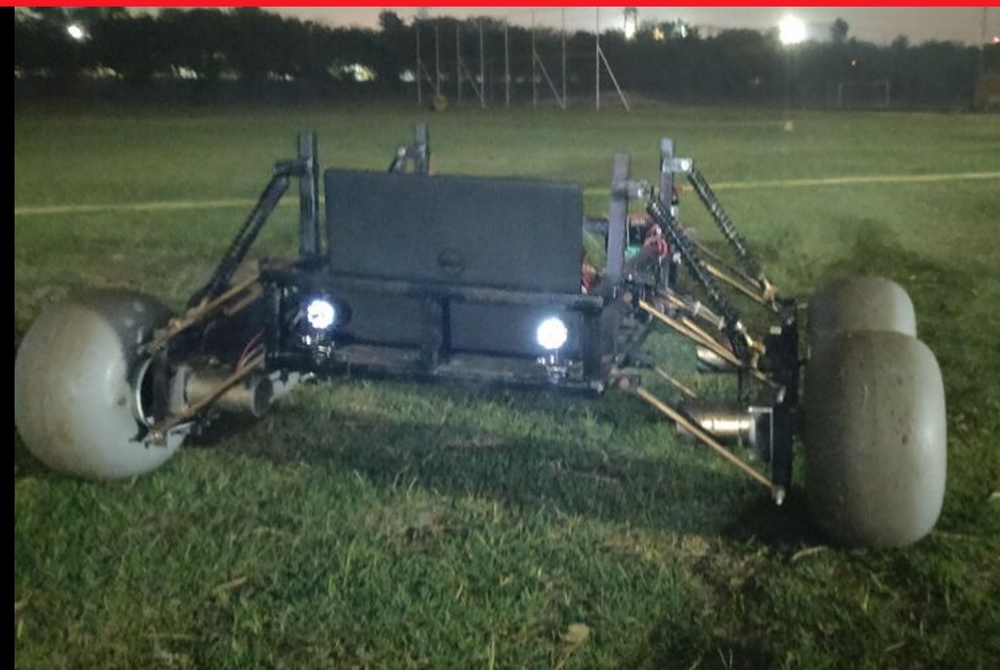
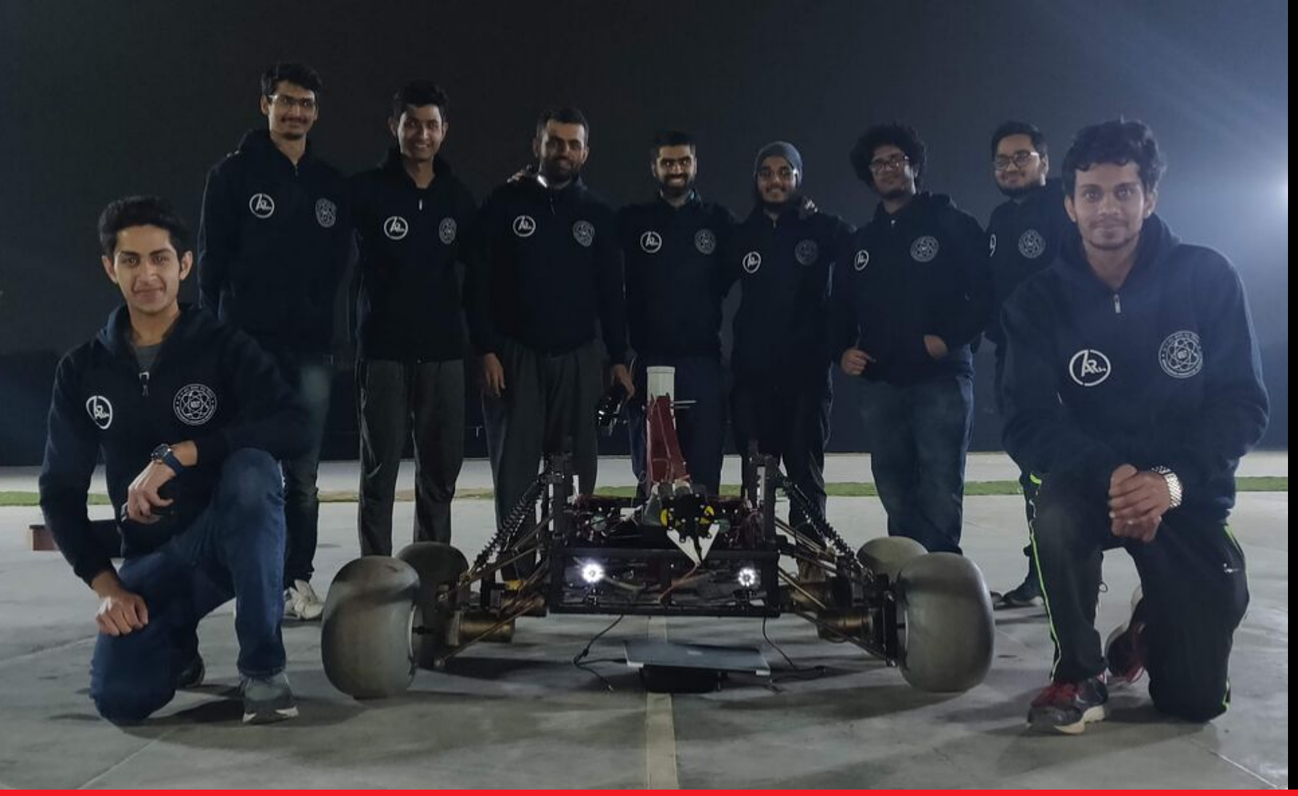
INTRODUCTION

In Roman Mythology, MARS is known to be the "God of War", as is ARES in Greek Mythology. For us, A.R.E.S is - Automated Rover using Embedded Systems. Team Ares is working to formulate, design and fabricate a rover that can be put to use in early exploration of Mars. We, are a multi-disciplinary collaboration of undergraduate space aficionados of about 30 motivated students from the Netaji Subhas Institute of Technology, working tirelessly to formulate, design and fabricate a rover that can be put to use in early exploration of Mars. We aim to improve the current state of the art in rover technology by conscientious hard work and surpassing all the hurdles faced along the way.



As primarily a student collaboration, our goal is to leverage our performance in global competitions to bring about some much needed transformation in the field of innovation at the university level. We are a diverse set of students spread across a multitude of engineering disciplines ranging from students in Mechanical, Manufacturing and Automation, Electronics, Computer Science, Instrumentation and Control and Biotechnology . We are over a 30 member team consisting primarily of sophomores and junior undergraduate students. Our team also prides itself on its incusivity and its dedication to women in Science, Technology, Engineering and Math (STEM). Our team is divided into sub teams handling particular departments such as robotic arm, chassis and material, suspension, power management, ground station, autonomous terrain traversal and communication. We also have a marketing and management team which coordinates the work between various departments and helps us in spreading our mission.



MISSION STATEMENT

Our mission is to spread innovation, research and practical knowledge. An important step towards achieving our mission and to spread it across India and then throughout the world is to win in the Indian Rover Challenge and the University Rover Challenge respectively, the premier competitive events in the domain.

WHY US ?

Our team ARES is a closely knitted group of engineering students from diverse fields of specialization all unified with the common goal of achieving higher levels of innovation in the fields of robotics, artificial intelligence, data science, electronics and embedded systems, control systems, computer vision and machine learning.

Our team includes members of various collegiate societies and have won prestigious laurels in their domains by winning in Cansat, IEEE hardware and software hackathons and many more. Our members have interned at Google, Hyperloop, Maruti etc. This motivates us to integrate their experience in their respective domains and make our impact in space exploration through rover design.

Our team is divided into various dedicated departments, each of them proficient in their own field of work, which makes our methods of management exponentially more efficient. Additionally, our members have immense experience in handling team dynamics from their experience in various collegiate societies, which makes us confident as a unit and leads us to believe we can perform exceptionally well in such competitions.

ACHIEVEMENTS

- Our team ARES has qualified for the finals of the prestigious European Rover Challenge conducted by the Mars Society and The European Space Society, to be held in Poland in September this year. We are among the 40 other teams from around the world to achieve this feat, and are looking forward to raising the Indian flag high on international ground.
- Previously, we had also prepared for the PDR (Preliminary Design Review) and SAR (System Acceptance Review) which describe the overall design and structure of the rover, for the University Rover Challenge. Though we missed the cutoff for the URC 2019 finals only by an inch, it was a great learning experience.
- Our previous accolades include qualifying for the URC and European Rover Challenge 2018. This was a major achievement for us since ARES Robotics, NSUT was the only Indian team to qualify in their first attempt and among only 7 other teams from Asia to qualify in 2018.

We would now like to further embellish our foundation by securing the first rank in ERC '19 and making NSUT and India proud.

OUR PROPOSAL

We aspire to bring technological advancement in the design of rovers. Currently, we stand among the top teams in India but for achieving the target and making a state-of-the-art rover, we require your valuable support. Shortage of funds doesn't allow us to build with full freedom. Since the rover components cost a lot, your contribution in any manner would be extremely important to us in achieving our goal. You could contribute to our mission by sponsoring our rover parts or by providing monetary sponsorship.

WHAT CAN WE OFFER?

- Our team has qualified for the finals of the prestigious European Rover Challenge to be held in September in Poland, and it is a matter of great pride for us to represent India there. We can thus bring international recognition for your company by representing you there.
  - Your company logo on rover final model
  - Your company logo on team apparels
  - You will become our official title sponsor
  - Your company's name will be featured in an exclusive team video which will be shared on our YouTube page and all social media handles.
- Extensive coverage on social media platforms like Facebook, Twitter, Instagram and offline publishing channels like DUBeat, HTCity etc. to promote the brand ARES as well as the sponsors associated with us.

YELLOW STAR

15000+

- All the generic sponsorship deliverables
- Company name, logo, link on our banners
- Company name, logo, link on social media
- Company name, logo and link on our website.
- Bi-annual newsletter describing our current status, advancements and achievements

BLUE STAR

25000+

- Company Logo on our Rover
- Company description on our website
- Invitation to our college for special talk and demonstration
- Company name and Logo on all team apparel and merchandise
- Company logo on canopies, banners during rover showcases at college fests
- Company's name will be featured in an exclusive team video which will be shared on our YouTube page and all social media handles.

OUR SPONSORS

CONNECT WITH US

+91 9953000576

teamaresnsit@gmail.com

https://www.facebook.com/aresmarsrover/