



VIT[®]
BHOPAL
www.vitbhopal.ac.in

TEAM GARVIT

SPONSHORSHIP BROCHURE

☎ +91 7835092422, +91 9110279715

✉ teamgarvit@vitbhopal.ac.in



ABOUT US

OUR TEAM

GarVIT, a passionate team fueled by innovation, electrifies off-road racing with their custom-built ATVs. They subjugate clean racing with quieter, efficient machines, and their victories in events like SAE Baja prove their dominance in the electric future of off-road.

OUR GOAL

GarVIT wants to transform off-road sports with electric ATVs built for speed, agility, and safety. They race in eBAJA, ATVC, and MegaATV, and aim to make the electric auto industry greener and safer by supporting young professionals and eco-friendly practices. Their **"#EVgoINDIA"** and **"#itsElectric"** initiatives connect enthusiasts, experts, and sponsors to grow the electric vehicle community

OUR ATV

Introducing GarVIT's revolutionary ATV: a single-seat powerhouse with a turbocharged motor for conquering mud, snow, and rocks. Boasting advanced suspension, oversized off-road tires, and adaptive terrain response technology, it guarantees optimal performance. Safety is prioritized with a reinforced frame, roll cage, and harness system. GarVIT's ATV redefines off-road exploration with thrilling and secure adventures.



PROJECT OVERVIEW

INTRODUCTION

Team GarVIT proudly represents VIT Bhopal in various renowned competitions, showcasing our skills and innovation in the field of automotive engineering.

SCOPE

Our core project revolves around the creation of an Electric All Terrain Vehicle (E-BAJA), demonstrating our commitment to sustainable and cutting-edge technology.

DESIGN PHASE

The journey begins with meticulous design work, where we employ necessary calculations to conceptualize the ATV, ensuring optimal performance and safety.

CAD MODELING & ANALYSIS

Leveraging advanced tools like SolidWorks, Ansys, and Altier, we meticulously create a detailed CAD model of the vehicle's components. Rigorous analysis is conducted to validate structural integrity and performance.

SIMULATION & ASSEMBLY

The entire ATV is assembled virtually within the CAD model, and thorough simulations are performed to evaluate the vehicle's functionality, identifying potential areas for improvement.

PROJECT OVERVIEW

ELECTRICAL SYSTEM DESIGN

Our team specializes in designing the electrical circuit, ensuring seamless integration with the vehicle. Precision and attention to detail characterize this crucial phase of the project

MANUFACTURING

With a validated design in hand, we transition to the manufacturing phase. Utilizing a range of techniques such as cutting, grinding, welding, bending, CNC machining, and lathe operations, we fabricate the various components with precision and expertise

RIGOROUS TESTING

We subject the completed vehicle to stringent testing procedures, simulating harsh conditions to identify and address any potential issues. Our primary focus is on ensuring both the vehicle's durability and the safety of the driver

COMPETITION PARTICIPATION

Team GarVIT eagerly participates in competitions, where our skills are put to the ultimate test. The pinnacle is the 4-hour long endurance race, where our meticulously designed and manufactured E-BAJA competes against other vehicles.

In conclusion, Team GarVIT is not just a group of individuals; we are a force dedicated to pushing the boundaries of innovation and engineering excellence. By supporting us, your company aligns itself with the future of sustainable and high-performance automotive technology.

COMPETITIONS

SAE INDIA EBAJA

SAE Baja India, organized by SAE India, is a competition challenging engineering students to design ATVs. Teams from across the country showcase innovation and teamwork in building and testing their vehicles, emphasizing practical engineering skills. The event provides a platform for applying classroom knowledge to real-world challenges and facilitates networking with industry professionals.

ATVC

ATVC is the National Level Platform for All Terrain Vehicle events in India, established in 2018. It organizes various competitions for engineering students, where they design and build all-terrain vehicles (ATVs) and compete in different events testing their technical and design skills. It is conducted in association with AICTE (All India Council for Technical Education) and Rajasthan Technical University. It takes place in Kota, Rajasthan.

MEGA ATV

Mega ATV Competition, officially Mega ATV Championship, is a national-level event in India for All-Terrain Vehicle (ATV) racing and design, primarily aimed at engineering students, particularly those studying Mechanical or Automobile Engineering. It's organized by "Autosports India." It is known for its exciting format, especially the night endurance race.

ACHIEVEMENTS

TGR 1.0

ATVC Event

Electric Run: AIR 3
Overall: AIR 7



TGR 2.0

EBAJA

OVERALL PRELIMS: AIR 2
MANUFACTURING EVENT: AIR 3
(PODIUM FINISH)
COST EVENT: AIR 9
BRAKES TEST: AIR 6
DESIGN EVENT: AIR 5 OVERALL
STATICS: AIR 6

MANEUVERABILITY TEST: AIR 8
ALL TERRAIN RUN: AIR 11
SUSPENSION & TRACTION TEST: AIR 9
OVERALL DYNAMIC: AIR 10
RENDER REVEAL CHALLENGE: AIR 2
(PODIUM FINISH)
OVERALL: AIR 5



TGR 3.0

EBAJA

MANUFACTURING REPORT: IR 3
(PODIUM FINISH)
DESIGN EVALUATION: IR 6
SALES REPORT: IR 4
OVERALL STATICS: IR 15

MANEUVERABILITY TEST: IR 14
ENDURANCE: IR 14
SUSPENSION & TRACTION: IR 17



TGR 4.0

EBAJA

DESIGN EVALUATION: IR 14
SALES REPORT: IR 2



SPONSORSHIP

WHY SPONSOR US?

Partner with GarVIT for a powerful combo: access young talent, drive innovation, enhance brand image, and meet CSR goals. Sponsoring our SAE India team offers unique benefits: recruit top talent, gain insights, and champion skill development. It's an investment in student growth, positioning your brand as an industry leader. In short, it's a strategic move for a competitive edge and a role in shaping the future of engineering.

SPONSORSHIP BENEFITS

- Brand mark adorning on ATV.
- Brand mark on banners at Campus and Event Site.
- Brand mark on team's jersey.
- Brand mark stickers in workshop.
- Promotion through media (Linkedin , Instagram, Twitter & Facebook).
- Promotion on official website.
- Publicity through College mail.
- Promotion through college events (ATV revealing Event, College Fest).
- Publicity through workshops and webinars/seminars
- Publicity through Advertisement Videos

PREVIOUS SPONSORS

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VIT[®]
BHOPAL
www.vitbhopal.ac.in

CONTACT US

Yash Modi

Team Captain

☎ **+91 9110279715**

Aarchi Chaurasia

HOD of PR & Outreach

☎ **+91 7835092422**

✉ **teamgarvit@vitbhopal.ac.in**

