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Georgia Tech Off Road

Engineer,Weld,Design,Fabricate,Race,Build,Analyze,Compete,Ramble



**Upcoming Events**

##### Baja SAE Louisville: May 14-17, 2020

##### Baja SAE Illinois: June 3-6, 2020

##### Baja SAE Arizona: April 16-19, 2020

About us

Georgia Tech Off-Road is a student-led team founded in 1998 that participates in annual Baja SAE competitions. The team currently has 40 undergraduate members with students majoring mostly in some form of engineering. Students on the team are provided with an opportunity to work on a large scale and time-constrained engineering project. They learn to not only design and analyze vehicle components, but also to develop communication and teamwork skills in ensuring proper integration between designs.

The North America Baja SAE competitions take place at three event locations each year and have upwards of 100 teams at each event. Student teams are tasked with designing and fabricating a high-performing single-seat off-terrain vehicle to sell to the enthusiast market. Teams compete in a set of static and dynamic events that span evaluations from vehicle designs to business models. Professionals from industry are involved with the competition and serve as judges to assess the student teams.

Join Our Team!

If you're a GT student looking to join our team, it's a simple process! It doesn't matter what major or year you are. Just fill out this [Interest Form](https://drive.google.com/open?id=1kovTUahrywtclnM3qd71tE19Q79LgnMQ61O8ZwEJUjs)  and come during any of our shop times. We'll gladly show you around!

We're also a VIP (Vertically Integrated Project) team, so you can also join this way and receive credit. For more information about VIP, go [here](http://www.vip.gatech.edu/teams/gt-road).

### Shop Times

##### Sundays 4:00 pm - 7:00 pm

##### Tuesdays 7:00 pm - 10:00 pm

##### Thursdays 7:00 pm - 10:00 pm

### Location

##### The Student Competition Center

##### [**575 14th Street, Atlanta, GA 30318**](https://www.google.com/maps/place/575+14th+St+NW,+Atlanta,+GA+30318)

You can take the green route to get here - just get off at the bus yard. Since shop times go a little late, you can also take the stingerette back to campus after the green route stops running.



[Facebook](https://www.facebook.com/georgiatechoffroad/)



[Instagram](https://www.instagram.com/georgiatechoffroad/?hl=en)

* [575 14th Street, Atlanta, GA 30318](https://www.google.com/maps/place/575+14th+St+NW,+Atlanta,+GA+30318)
* [gtor@mail.gatech.edu](mailto:%20gtor@mail.gatech.edu)
* (404) 385-4030

Midnight Mayhem Rankings 2019 (Out of 98 teams)

Overall 8/98

Overall Dynamic 16/98

Acceleration 22/98

Manuverability 21/98

BajaCross 30/98

Endurance 10/98

Subsystems

Subsystems are smaller groupings of the team for design and building.

Drivetrain

The drivetrain subsystem responsible for transmitting power to the wheels. This is accomplished with the standard, unmodified Briggs & Stratton 10HP engine paired with a custom gearbox and electronically controlled variable transmission.

Suspension

The suspension subsystem connects the frame of the vehicle to the wheels and allows the vehicle to traverse rocks, logs, and mud-pits with ease. The vehicle has four wheel independent suspension, implementing double a-arm design in the front and a three link (trailing arm) design in the rear.

Chassis

A custom tubular frame is designed and fabricated each year. The chassis subsystem works to ensure that the strength and geometry of the frame satisfies the requirements set by Baja SAE competition rules.

Data Acquisition And Validation

The data acquisition and validation subsystem services the data gathering, and processing needs of the team. This subsystem is at the forefront of the team’s research and development efforts and is instrumental to the yearly improvements made to the vehicle.

Manufacturing

The manufacturing subsystems is chiefly responsible for the annual fabrication of our custom components (95% of the vehicle). The manufacturing subsystem implements many processes to deliver quality parts on a tight schedule, including welding, composites work, manual milling and turning, CNC milling and turning, and wire EDM.

Business

The business subsystem manages the team’s budget and resources. In addition, the business subsystem is responsible for new member recruitment and interfaces with company sponsors/partners.

Driver Controls

The driver controls subsystem is responsible for the design of all driver to vehicle interfaces, including steering, braking, and throttle control. Lightweight design and ergonomic considerations allow the driver to have quick, comfortable, and effective control of the vehicle.

40

SHOPNIGHTS PER SEMESTER

21

YEARS OF EXPERIENCE

40

UNDERGRADUATE TEAM MEMBERS

Team Leads

GTOR 2019/2020 Season Subsystem Leads



Team Lead and President

### [**Steven Shipley**](https://www.linkedin.com/in/steveneshipleyiii/)

Steven is a competitive team lead of GT Off-Road and a methodical engineer with an ambitious vision for the club.

Mechanical Engineering

4th year undergraduate



Chief Engineer

### [**Justin Cole**](https://www.linkedin.com/in/justin-cole-989976135)

Justin is the chief engineer for GT Off-Road. He leads the engineering efforts with a curiosity for new designs and a persistence for a competitive vehicle.

Mechanical Engineering

1st year graduate



Drivetrain Co-Lead

### [**Jesse Goodwin**](https://www.linkedin.com/in/jesse-goodwin-211752191)

Jesse is a driven and dedicated engineer leading the drivetrain team with creative solutions for the next generation vehicle.

Mechanical Engineering

4th year undergraduate



Drivetrain Co-Lead

### [**Andrew Abdow**](https://www.linkedin.com/in/andrew-abdow-a26006172/)

Andrew brings his passion for all things mechanical and his work ethic to Georgia Tech Off-Road every shop. He working to design novel and competitive drivetrains.

Mechanical Engineering

4th year undergraduate



Business Lead

### [**Emmanuel Haldopoulos**](https://www.linkedin.com/in/emmanuel-haldopoulos-gt2020/)

Emmanuel balances the rest of the leaders at Georgia Tech Off-Road with his acute business sense and decisiveness. His bullish determination helps the team to grow in its public image and business presence.

Mechanical Engineering

4th year undergraduate



Data Acquisition and Validation Co-Lead

### [**William (Billy) Plummer**](https://www.linkedin.com/in/billy-plummer-793920121/)

Billy is an enthusiastic GT Off-Roader. His curiosity leads him to take on the most difficult problems and his determination leads him to solve them.

Mechanical Engineering

4th year undergraduate



Manufacturing Lead

### [**Nick Pizzolato**](#1t3h5sf)

Nick is the highly skilled manufacturing lead for the team. He has proven expertise in manufacturing and is equipped to take on any challenge.

Material Science and Engineering

4th year undergraduate



Driver Controls lead

### [**Jonathan Corno**](#1t3h5sf)

Jonathan is the driver controls lead developing human accessible and easy to use driver controls.

Mechanical Engineering

4th year undergraduate



Data Acquisition and Validation Co-Lead

### [**Emily Fourney**](https://www.linkedin.com/in/emily-fourney)

Emily is creatively spearheading the data acquisition and analysis effort for GT Off-Road using analytical resourcefulness to apply studious solutions to problems.

Mechanical Engineering and Math

3rd year undergraduate



Chassis Lead

### [**Jacob Tommey**](https://www.linkedin.com/in/Jacob-tommey)

Jacob leads the chassis team. He adds character and cheer to the Off-Road team while developing next safe and robust chassis.

Mechanical Engineering

4th year undergraduate



Suspension Lead

### [**Wasiq Kabir**](https://www.linkedin.com/in/wasiq-kabir-37a5b6170/)

Wasiq is the youngest member of the leads at GT Off-Road. He has always stepped to the plate to fill gaps in the engineering team.

Mechanical Engineering

2nd year undergraduate

Sponsors

A big thank you to our sponsors for keeping our club running!



## General Motors



## Magna



## E-Z-GO



## Caterpillar Inc.



## Pratt & Miller



## Fox Racing



## Caldwell Machine & Gear Inc.



## Met Lab



## Performance Coatings

Faculty Sponsor

 Dr. Kenneth Cunefare

* [ken.cunefare@me.gatech.edu](mailto:%20ken.cunefare@me.gatech.edu)
* (404) 894-4726

Dr. Cunefare serves as the Georgia Tech faculty advisor for GT Off-Road. Dr. Cunefare received a Ph.D. in Mechanical Engineering with specialization in acoustics from the Pennsylvania State University in 1990. He received the Acoustical Society of America’s Hunt Fellowship to perform post-doctoral research at the Technical University of Berlin, Institute of Technical Acoustics. He joined the Mechanical Engineering faculty of the Georgia Institute of Technology in 1991, where he teaches classes in acoustics, noise control, vibrations, and design. Dr. Cunefare serves as the Professor in Charge of the Integrated Acoustic Laboratory, a state of the art facility dedicated to acoustics and vibrations. Dr. Cunefare is a Fellow of the Acoustical Society of America and of the American Society of Mechanical Engineers, and is a member of the Institute of Noise Control Engineering, and SAE International.

Gallery









































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Get in Touch

If you are a student or sponsor trying to get more information about Georgia Tech Off-Road, then please contact us with the following email. The location of our workshop is also included below.

* [575 14th Street, Atlanta, GA 30318](https://www.google.com/maps/place/575+14th+St+NW,+Atlanta,+GA+30318)
* [gtor@mail.gatech.edu](mailto:%20gtor@mail.gatech.edu)
* (404) 385-4030

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