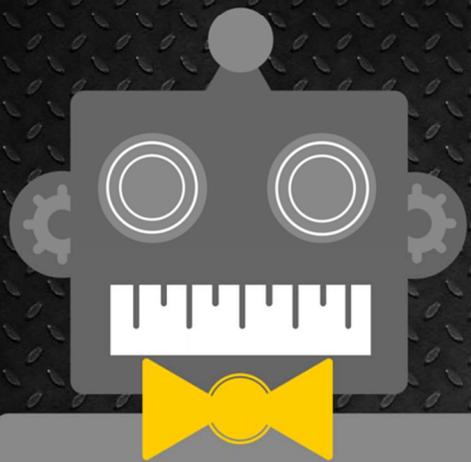


The Piqued Geek

Art by Eric Joyner



Upcoming Events:

Sept 27th: Career Tec Expo
 Oct. 13th-14th: Minnesota Robotics Invitational (MRI)

Large Group Meeting:

Sept 26th, STEM 122
 Oct. 5th, STEM 130
 Oct. 26th, STEM 130
 Nov. 7th, STEM 130
 Nov. 30th, STEM 122

Weekly Watts Up:

Attention FIRST Volunteer Want to Bee's:

Do you want to have a key or technical role in one of the FIRST FRC competitions coming up this Spring? Then come to the Minnesota Robotics Invitational (MRI) on October 13th through the 14th in Roseville Minnesota. Prior experience with the FIRST program is not at all needed. Rides to and from the event along with where we will be staying will be further discussed closer to the event. Again you need to go to this event in order to have a key or technical role for volunteering at any of the FIRST FRC competitions! You can either sign up at the LGM on September 26th or email the Service Officer, Rose McNamee, at bisonroboticsservice@gmail.com. Hope to see lots of people signed up!

Fundraising Event:

Whether just want to get your \$20 back or if you want to help the team more money so we can do more fun things there is a fundraising event coming up. It is called The Shaq at the SHAC on October 3rd and 4th. You might be wondering why the funny name? Well if you fundraise at this event then you might even meet Shaq! Yes the Basketball player Shaq. Whatever the reason you are interested sign up with your name and one of the projects you are associated with to help them get some money too. Just [Click Here](#).

Other Announcements

Check Out the Apparel store by September 30th (paste the link in your browser):
<http://programs.rambowinc.com/login.php?UserID=bison&ReturnURL=http://www.rambow.com>

- Apparel store is open now until September 30th
- It will be open again next semester if you miss out this round
- After paying the member fee, you get the green t-shirt FREE

Check out... [Twitter](#) [Facebook](#) [Instagram](#) [Vine](#) [BR Website](#) [Trello](#)

Sun 9/24	Mon 9/25	Tues 9/26	Wed 9/27	Thurs 9/28	Fri 9/29	Sat 9/30
Snowplow: 6:00pm Auxiliary Enterprises	Quad: 6:00pm QBB 108 NRMC: 7pm Dolve 215	LGM: 7:00pm A Glenn Hill Center 122 ICCC: 8:00pm Dolve 202	Fall Engineering and Tech Expo: 10:00am to 3:00pm Fargodome Snowplow: 7:00pm Auxiliary Enterprises	Video Game Design: 5:00pm, QBB 114 Snowplow: 6:00pm Auxiliary Enterprises	NRMC Mechanical: 5pm Dolve 115 Quad: 5pm, TBD NRMC GITogether: 6pm	Quad: 6pm QBB 108



Project Updates

NRMC

Contact: noah.m.curfman@ndsu.edu

Test Frame is fully mechanically assembled and should be driving by the beginning of October. The team will now enter a design and prototyping phase to get everything prepared for the manufacturing phase that begins November first.

There is no GroupMe just email the email above.

Quadcopter

Contact: abduallah.almosalami@ndsu.edu

All subgroups (Mechanics, Software/Electronics, and Strategists) have had their initial meetings and division of labor within each has been implemented. Mechanics will work on an outer frame, a casing for internal components, and CAD work to optimize weight distribution and run simulations/tests. Software begins work in Computer Vision, MAVLink & QGroundControl, and the Obstacle Avoidance System. Strategists are running through and statistically analyzing the different possible strategies for competition. Big priority has been put on being professional and being educational/newbie-friendly. GroupMe Link [Here](#)

Snowplow

Contact: abduallah.almosalami@ndsu.edu

We are officially registered for the 2017-2018 competition. All subgroups (Mechanics, Software/Electronics, and Strategists) have had their initial meetings and division of labor within each has been implemented. Mechanics has completed all initial CAD work and will begin the next stage of modeling by filling in the details of the CAD model (weight, material, etc.) and begin creating a simulated environment to run tests. Next stage will be frame redesign/modifications. One group within Software/Electronics has started work on completing the code to run the IMU and GPS and the other on building a logic model for the Snowplow's autonomy and should begin tests soon on both. Strategists have completed initial evaluations for the possible strategies of the competition. Big priority has been put on being professional and being educational/newbie-friendly.

GroupMe Link [Here](#)

Volunteering

Contact: rose.m.mcnamee@ndsu.edu

Many opportunities to get involved in Bison Robotics through volunteering! Updates on different volunteer opportunities throughout the year will be sent out via GroupMe, your email, or at large group meetings. Looking forward to a great year!

There is no GroupMe just email bisonroboticsservice@gmail.com

Game Development

Contact: benjamin.mohan@ndsu.edu

Video Game Development Club is a project for novices and experts alike who wish to work on fun game development projects. We will be using Unity, Visual Studio, Blender, and many more tools to make awesome games.

GroupMe Link [Here](#)

ICCC (Learn Code)

Contact: Joseph.cluett@ndsu.edu

Last week we finished the intro to pointers and functions. This week we start structs, classes and loops. Next week we start on our collaborative project.

GroupMe Link [Here](#)

Miscellaneous/Other:

Any questions? Lost on where to begin or how to do something or even what there is to do? Check out the [Bison Robotics Member Guide!](#) This will be your best non-human friend; I promise you. If you have something that you think should be added to it, bisonroboticssocialmedia@gmail.com!

"To the optimist, the glass is half full. To the pessimist, the glass is half empty. To the engineer, the glass is twice as big as it needs to be."
~Unknown

CHECK THIS OUT.

Battle Bots

Contact: Kevin.king@ndsu.edu

Decided on a preliminary design and began fine-tuning details.

GroupMe Link [Here](#)

Ri3D

Contact: brian.kalvoda@ndus.edu

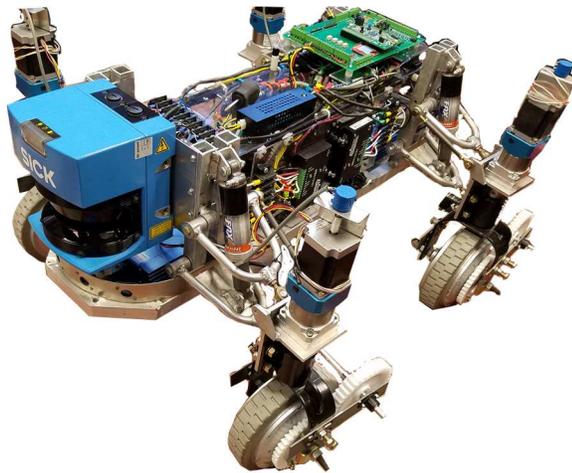
Robot in 3 Days (Ri3D) is one of BR's most intense events as members are tasked with working as a team to create a fully functional robot in just 72 hours. This event takes place in early January but, planning starts now! Keep an eye out for more updates and join the Ri3D GroupMe to be a part of the action.

GroupMe Link [Here](#)

AGVR

Contact: karl.klindworth.2@ndsu.edu

We worked on programming the GPS this week and also started compartmentalizing the code on the STM board. A 3D printed bracket was also created to hold the GPS and the PI. We are hoping to have limited motion by Friday next week.



Please send any Robotics Related pictures to bisonroboticssocialmedia@gmail.com with a quote to go with the picture, your name, and the group you're from to be a part of the contest!