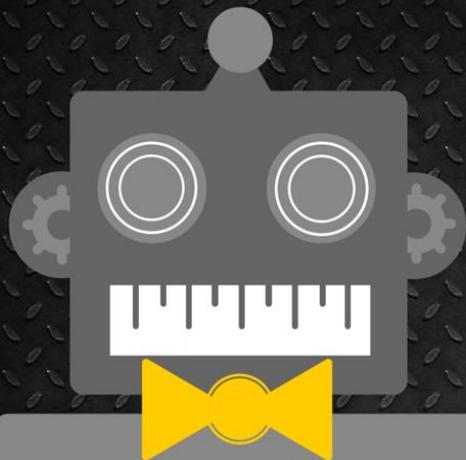




# The Piqued Geek

Art by Eric Joyner



## Upcoming Events:

Robot in 3 Days Challenge: Jan 7-10<sup>th</sup>

FRC Volunteering: March 1-4<sup>th</sup>, April 5-8<sup>th</sup>

## Large Group Meeting:

*NEXT SEMESTER!*

Stay tuned for a spring semester schedule!

## Weekly Watts Up:

### Training Material Harvesting

On the BR website, a new tab has been added: "Resources." This section is meant to help BR produce more external and internal outreach amongst those in the robo realm! Currently, there are some resources for FRC and FTC teams, Learn-to-Code resources, and some general resources (including notes from Dr. Ericsson's "Effective Technical Presenting" presentation). If you have additional material to be added to this collection, please contact/send it to [emma.schreifels@ndsu.edu](mailto:emma.schreifels@ndsu.edu) ASAP! We hope to continue to grow this to be a superb training repertoire for BR members, K-12 robo students, and anyone interested in STEM and general team logistics. Also, we ask that those involved in BR's projects start creating more "instructables" or how-tos for various processes to add here! Thanks!

### Volunteering is Appearing! Email [jordyn.t.johnson@ndsu.edu](mailto:jordyn.t.johnson@ndsu.edu) if you are interested!

It is about that time to be preparing for FIRST Robotics Competition volunteering! The Duluth, MN Regionals are March 1-4<sup>th</sup>, and the Minneapolis ones are April 5-8<sup>th</sup>. There are both technical and nontechnical roles available! You can sign up for one or both events, and the commitment is Wed-Sat for each weekend. Excuse letters will be provided for missing class, and fundraising will be done for decreasing the cost of travel and lodging.

### Resume Critiques

Tis the season to be looking for internships and jobs! If you have a resume and want some constructive feedback, email it to [tyler.lane@ndsu.edu](mailto:tyler.lane@ndsu.edu)!

### Help Emma This Holiday Season

... with collecting robotics pictures for the website/social media and any songs that relate to STEAM concepts (eg. "Rocketman," "Coffee," "Molecules," "Go Robot," etc.). If you have any pictures that you have not gotten to me over the course of this semester, please send them to [emma.schreifels@ndsu.edu](mailto:emma.schreifels@ndsu.edu) ASAP (after finals). As for the seemingly odd song requests, I am compiling a STEAM-themed Spotify playlist for BR (and to possibly share on our social media sites so no Eminem-explicit-level songs (sad, I know...)). This would just be something fun and different, and might get a lot of positive feedback from FRC teams! Who knows. Let's do it though! So, in summary, pictures and songs to Emma after this week has died.

Check out...

[Twitter](#)

[Facebook](#)

[Instagram](#)

[Vine](#)

[BR Website](#)

[Trello](#)

Sun 12/11

Mon 12/12

Tues 12/13

Wed 12/14

Thurs 12/15

Fri 12/16

Sat 12/17

Newsletter!

Finals Week. HERE WE GO.

Ri3D Film Crew Meeting: QBB 116, noon

Programming Palooza: Dolve 118, 5:30-the end

Dobby is a free elf... for now

# Project Updates

## NRMC

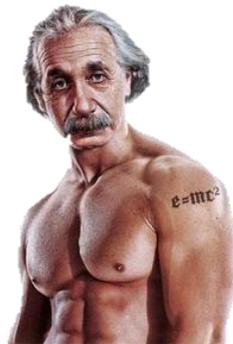
Contact: [Jacob.huesman@ndsu.edu](mailto:Jacob.huesman@ndsu.edu)

Myrick is officially an additional advisor for this project! The practice arena has been built, and it will be filled over break. Linear actuators are working, CAN is coming along, and the mechanical side is also making insane progress. Gearboxes are going to be reordered, and high-class, spunky stickers are now injecting personality into the toolboxes☺

## Quadcopter

Contact: [Tyler.blanchard@ndsu.edu](mailto:Tyler.blanchard@ndsu.edu)

#QuadSquad



## Snowplow

Contact: [brady.goenner@ndsu.edu](mailto:brady.goenner@ndsu.edu)

Snowplow is finishing off the wiring and the integration of the computer. Stay tuned to when meetings will be for next semester!

## Volunteering

Contact: [jordyn.t.johnson@ndsu.edu](mailto:jordyn.t.johnson@ndsu.edu)

FRC VOLUNTEERING: Volunteers will need to start signing up, picking roles, and completing background checks! The dates are March 1-4<sup>th</sup> and/or April 5-8<sup>th</sup>! If you are interested in volunteering at either or both events this year, please let Jordyn know ASAP! Over Christmas Break, she would like to get everyone registered for this on VIMS.

Please email Jordyn for more information if you are interested more in helping out with all the volunteering BR does!

## Game Development

Contact: [Brandon.witt@ndsu.edu](mailto:Brandon.witt@ndsu.edu)

The group will be crafting a variety of simple games in order to prepare for a larger project. VGD recently began work on a video game called Avas Adventure by using Unreal Engine to set up the groundwork. They are working to finish various level designs and come up with the basic game layout.

## ICCC (Learn Code)

Contact: [Joseph.cluett@ndsu.edu](mailto:Joseph.cluett@ndsu.edu)

ICCC is done until next semester. Contact Joe with any questions or concerns!

## 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, email [emma.schreifels@ndsu.edu](mailto:emma.schreifels@ndsu.edu)!

*"Ever tried. Ever failed. No matter. Try again. Fail again. Fail better."*

- Samuel Beckett

**CHECK THIS OUT.**

# Battle Bots

Contact: Kevin.king@ndsu.edu

The date for the Battle Bots tournament will be March 27, 2017 at Ohio Northern University. Most of the electrical work is completed, and the frame/weaponry are now being designed. The group has a 3D model (80% complete) with one pound left over for extra modular components.

# Ri3D

Contact: Tyler.Danielson@ndsu.edu

This event will take place January 7-10<sup>th</sup>! There is a lot of preparation to be done still, so that will get figured out over break via online meetings etc. This year, Ri3D is shooting for more views and comments, so be sure to share the news with fellow robo-enthusiasts and/or FRC teams!

# AGVR

Contact: karl.klindworth.2@ndsu.edu

A ton of progress has been made on Hank the robot! Most of the wiring is already done, and testing the motors is coming up soon. The group also has new batteries! Weekly meetings for next semester will be adjusted to best fit the schedule of members.

