

Filling the Gaps

Resources for FRC Teams

Who am I?

Greg Billetdeaux

FRC 930 Alum and Lead Mentor

15 Seasons of FRC Experience

2020 Woodie Flowers Finalist Award Winner

Software Product Manager at RokkinCat



Resources?

Students

Mentors

Money

Tools

Experience

Resources?

Students

Mentors

Money

Tools

Experience

What kinds of Experience?

Knowing:

- What a match is like
- What kinds of drivetrains exist
- What motors to use
- What control algorithms to use
- How to debug a robot issue
- How to pick up a game piece

It's 2022

Everyone's a Rookie

Go Looking
For It

ASK FOR HELP

- Wisconsin Mentors Slack
- Join using the QR code, and when you run into an issue, ask there and someone will help you and/or point you in the right direction
- I'm putting this on every slide from here out, that's how much I want you to join



30 Years of FRC Means 30 Years of Experience

Use it. Steal it. Start with it.
Reinvent it. Learn from it.

<https://www.chiefdelphi.com/>

<https://www.thebluealliance.com/>

<https://johnvneun.com/>

<https://docs.wpilib.org/>

<http://rr.spectrum3847.org/>

<https://www.118everybot.org/>

<https://onshape4frc.com/>



Highlights



The Blue Alliance



The X009 Design Log

<https://johnvneun.com/blog/2020/10/29/the-x009-design-log>



Managing an FRC Roster

<https://johnvneun.com/blog/2020/5/12/frc-team-roster>



Quick Build Clamping Blocks

<https://www.chiefdelphi.com/t/3d-printed-quick-build-clamping-blocks/396682>



Touch it Own it Intakes

<https://www.chiefdelphi.com/t/touch-it-own-it/166616>



PathPlanner - Autonomous Path Generation

<https://www.chiefdelphi.com/t/introducing-pathplanner-2-0/397629>



WPILib Curriculum using Romis

<https://www.chiefdelphi.com/t/curriculum-for-wpilib-frc-using-romis/395999>



Spectrum CAD Collection

<http://cadcollection.spectrum3847.org/>



Spectrum Build Blog

<https://blog.spectrum3847.org/>



118 Everybot

<https://www.118everybot.org/2020everybotresources>



The Thrifty Bot

<https://www.thethriftybot.com/>



OnShape Featurescripts

<https://onshape4frc.com/cad-library>



Q&A Time

Join the Slack so it's Always Q&A Time

