

PEREGRINE

tiny.cc/peregrine2733

Who are we?

Pigmice (2733), a Portland based robotics team at Cleveland High School.



Who are you?

- Scouts?
- Scouting Leads?
- Programmers?
- Mentors?

Why do we Scout?


- Observing and recording teams' behavior
- Gain insights about other team's' performance
- Improve alliance selections
- Helpful for Drive Teams

Why a Scouting App?

- Inconvenient, hard to manage, disorganized
- Eliminate manual data entry
- Makes data easy to understand
- Reduce bias in alliance selection
- Paper scouting isn't **hip** or *fresh* or cool

What did we do?

We built a scouting app designed to solve problems with low tech scouting methods such as paper scouting last year. We're working on an improved second version this year.

|  Search for events Login | | |
|--|-----|----------|
| Texas State Championship | OFF | 05/17/18 |
| Carson | CMP | 04/24/18 |
| Curie | CMP | 04/24/18 |
| Daly | CMP | 04/24/18 |
| Darwin | CMP | 04/24/18 |
| Archimedes | CMP | 04/24/18 |
| Tesla | CMP | 04/24/18 |
| Einstein (Detroit) | CMP | 04/27/18 |
| Einstein (Houston) | CMP | 04/20/18 |
| Carver | CMP | 04/17/18 |
| Galileo | CMP | 04/17/18 |
| Hopper | CMP | 04/17/18 |

Timeline

- November 3, 2017 - Initial Project Started
- April 29, 2018 - Development Ended
- July 17, 2018 - V2 Project Started
- Bunnybots (Dec. 23) - V2 Completed
- 11:28 last night - most recent commit

[Login](#)

Oregon Girl's Generation OFF 10/06/18

CalGames OFF 10/05/18

NTX Tournament of Robots OFF 10/05/18

STEMGals OFF 10/05/18

HAVOC OFF 10/05/18

Beantown Blitz OFF 10/05/18

Chezy Champs OFF 09/28/18

Fall Classic OFF 09/29/18

Beach Blitz OFF 10/12/18

Minnesota Robotics Invitational OFF 10/12/18

Gateway Robotics Challenge OFF 09/28/18


Ozark Mountain Brawl OFF 09/27/18


FSU Roboday OFF 09/28/18


Grand Rapids Girls Robotics OFF


View Analysis


Compare Teams


Qual 1 2:05 PM 


Qual 2 2:12 PM 


Qual 3 2:19 PM 


Qual 4 2:27 PM 


Qual 5 2:34 PM 


Qual 6 2:44 PM 


Qual 7 2:51 PM 

Qual 8 2:57 PM 

Qual 9 3:06 PM 

Qual 10 3:13 PM 

Qual 11 3:21 PM 

Qual 12 3:28 PM 

Qual 1

2:05 PM

Scout

3674

2471

2521

Score
406

4488

6445

6845

Score
229



Team

3674 ▾

Auto

Crossed Line



Cubes On Scale

- 0 +

Cubes On Switch

- 0 +

Teleop

Climbed On Partner



Climbed Self



Cubes Into Exchange

- 0 +

Cubes On Scale

- 0 +

Cubes On Switch

- 0 +

Ends On Platform



General

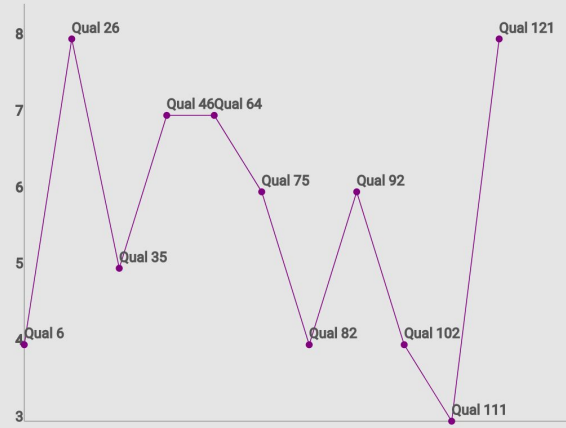
Live Demo!

Enough tell, let's show!



| Team | Absent | Auto Crossed Line | ◀ Auto Cubes On Scale | Auto Cubes On Switch |
|----------------------|--------|-------------------|-----------------------|----------------------|
| 2471 | 0% | 100% | 1.3 | 0.1 |
| 2046 | 0% | 100% | 1.3 | 0.2 |
| 2910 | 0% | 100% | 1.2 | 0 |
| 1318 | 0% | 92% | 0.7 | 0.3 |

Teleop Cubes On Scale



Teleop Cubes On Switch



Qual 74

Red

| | 23/4 | 2/33 | 1983 |
|----------------------------|------|------|------|
| Absent | 0% | 0% | 0% |
| Auto Crossed Line | 83% | 100% | 91% |
| Auto Cubes On Scale | 0.2 | 54% | 0 |
| Auto Cubes On Switch | 0.3 | 0.2 | 1.2 |
| Had Connection Problems | 0% | 0% | 0% |
| Had Power Problems | 0% | 0% | 0% |
| Helped Partner's Climb | 0 | 0 | 0.2 |
| Teleop Climbed On Partner | 0% | 0% | 0% |
| Teleop Climbed Self | 0% | 0% | 40% |
| Teleop Cubes Into Exchange | 0 | 0 | 0 |
| Teleop Cubes On Scale | 2.2 | 4.2 | 4.2 |
| Teleop Cubes On Switch | 3.2 | 0 | 0.6 |
| Teleop Ends On Platform | 60% | 80% | 40% |

Blue

| | 45/3 | 26/23 | 41/31 |
|----------------------------|------|-------|-------|
| Absent | 0% | 0% | 0% |
| Auto Crossed Line | 100% | 100% | 83% |
| Auto Cubes On Scale | 0.7 | 0.3 | 0 |
| Auto Cubes On Switch | 0.5 | 0 | 0.3 |
| Had Connection Problems | 0% | 0% | 0% |
| Had Power Problems | 0% | 0% | 0% |
| Helped Partner's Climb | 0 | 0 | 0 |
| Teleop Climbed On Partner | 0% | 0% | 0% |
| Teleop Climbed Self | 83% | 17% | 83% |
| Teleop Cubes Into Exchange | 1.5 | 0.3 | 1 |
| Teleop Cubes On Scale | 3.0 | 3.5 | 0.2 |
| Teleop Cubes On Switch | 0.5 | 0.5 | 3.5 |
| Teleop Ends On Platform | 0% | 0% | 90% |

How we built it

Backend

- Go
- PostgreSQL
- Docker
- DigitalOcean

Frontend

- TypeScript
- Preact
- Progressive Web App (PWA)
- Offline data storage
- Netlify

Why are we Rewriting?

- Allow other teams to use the app without hosting it themselves
- Better user experience
- Better data analysis
- Easier deployment/hosting

Questions?

Backend: <https://github.com/Pigmice2733/scouting-backend>

Frontend: <https://github.com/Pigmice2733/scouting-frontend>

New App: <https://peregrine.ga/>

Current App: <https://pigmice.ga/>

Presentation: <https://goo.gl/3Xyex7>

Email thepigmice2733@gmail.com for help setting it up