FRC 2014 Season

Team 4488 – Shockwave
What a second year!!!!

Alex Tenca

May 2014

Oregon City District Event

- Record: 17-2-0
- Ranked #1 in quals → Winners!
- Pit Safety Award
- District Chairman's Award
  - History of PNW Chairman's Award winners
    - 2003 – Team 957 – Albany
    - 2004 – Team 847 – Phred
    - 2005 – Team 957 – Albany
    - 2006 – Team 492 – WA
    - 2007 – Team 1540 – Flaming Chickens
    - 2008 – Team 1318 – WA
    - 2009 – Team 1566 – ID
    - 2010 – Team 1540 – Flaming Chickens
    - 2011 – Team 1510 – Wildcats
    - 2012 – Team 2517 – WA
    - 2013 – Team 1540 – Flaming Chickens

2014
Team 1540 – Flaming Chickens

Wilsonville District Event

- Record: 16-2-0
- Ranked #1 in quals → Winner!
- Industrial Design Award by General Motors
  - *The Industrial Design Award celebrates form and function in an efficiently designed machine that effectively addresses the game challenge.*
- Safety Buttons

After all the district events:

Finished #1 in the district ranking system
(out of 153 teams)!

PNW District Championship

- Much tougher competition
  - 63 best teams in the district
  - Only 16 teams from Oregon (25%)
- Record 14-5-0
- Ranked #3 in quals → Finalists!
- Quality Award by Motorola
  - The Quality Award celebrates machine robustness in concept and fabrication.
- Average score of our matches
  - Qualification round: 177
  - Elimination rounds: 163
  - All matches: 172
- Oregon teams qualified for Worlds: 4 (18% of PNW slots)
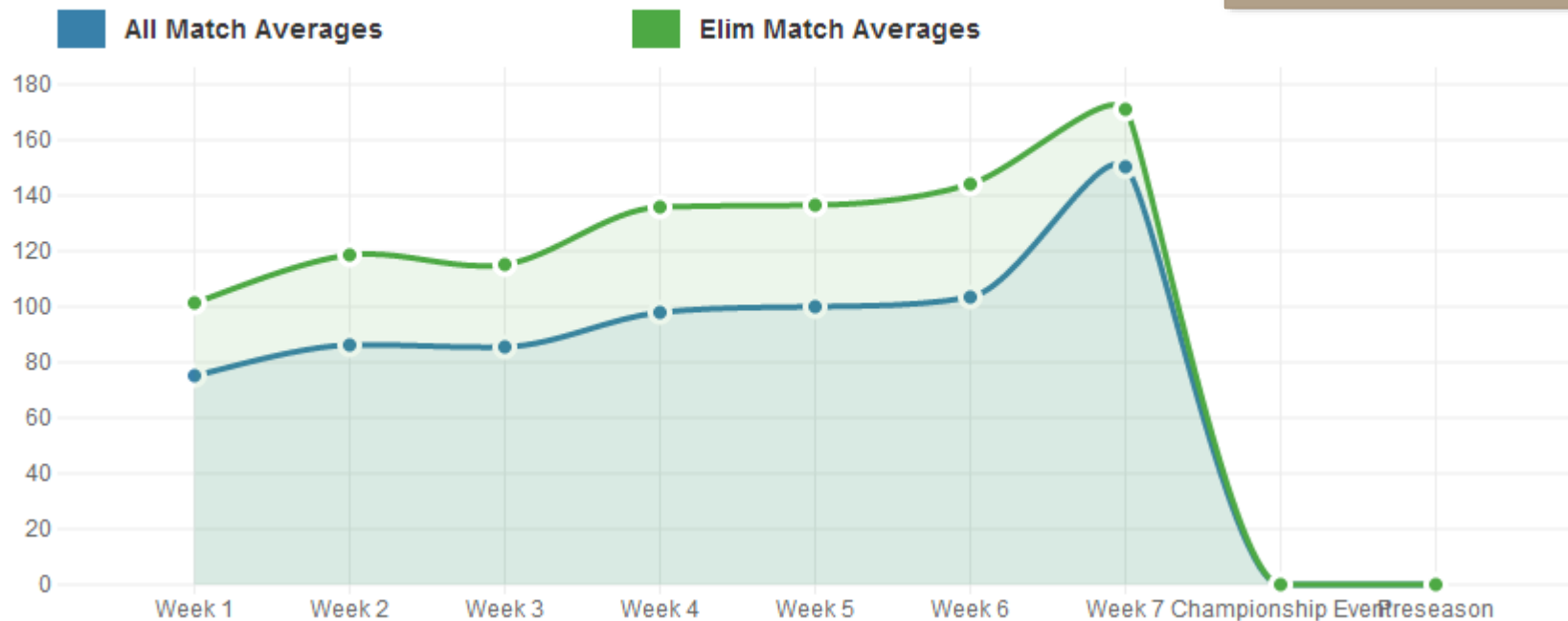 - 4488, 997, 955 and 1540 (Chairman's Award, not by ranking)

FirstWA teams:
- 47 teams (75%)
- Going to Worlds: 18
- 82% of the PNW slots

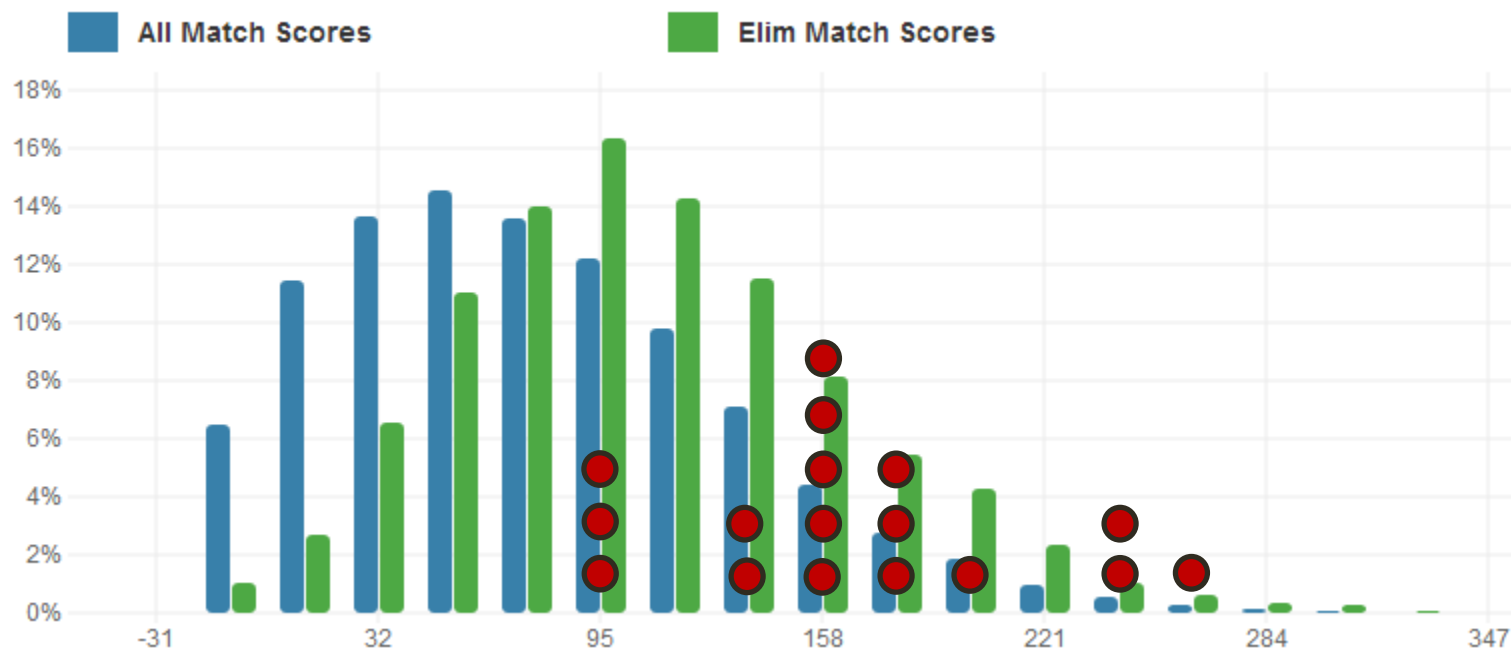# Blue Alliance Insights (before Worlds)

4488 Averages:
Quals= 177
Elims=163
Overall=172

Average Match Score By Week

All Match Averages   **Elim Match Averages**

Blue Alliance Insights (before Worlds)

Our match scores in PNW Championship

Ranked #1 in district points

Rank	District Points	Team	Event 1	Event 2	District Championship	FRC Championship	Rookie Bonus
1	337	4488 - ShockWave	78	71	183	Qualified	5
2	305	1983 - Skunk Works Robotics	40	67	198	Qualified	0
3	291	1318 - Issaquah Robotics Society	47	58	186	Qualified	0
4	284	3393 - Horns of Havoc	63	32	189	Qualified	0
5	276	4911 - CyberKnights	67	40	159	Qualified	10
6	235	2907 - Lion Robotics	70	39	126	Qualified	0
7	225	488 - Team XBot	58	29	138	Qualified	0
8	218	1595 - Dragons	28	61	129	Qualified	0
9	210	2522 - Royal Robotics	65	73	72	Qualified	0
10	205	4061 - SciBorgs	69	61	75	Qualified	0
11	193	3588 - the Talon	39	67	87	DI	0
12	188	4077 - M*A*S*H	47	63	78	Qualified	0
13	188	2928 - Viking Robotics	25	70	93	Qualified	0
14	185	3812 - Bits & Bots	23	48	114	Qualified	0
15	182	2557 - SOTAbots	59	60	63	Qualified	0
16	178	4915 - Spartronics	48	57	63	Qualified	10
17	175	997 - Spartan Robotics	45	52	78	Qualified	0
18	174	955 - CV Robotics	52	47	75	Qualified	0
19	166	3238 - Cyborg Ferrets	49	72	45	Qualified	0
20	166	2471 - Team Mean Machine	71	41	54	Qualified	0
21	164	4125 - Confidential	74	39	51	Qualified	0
22	162	1294 - Top Gun	36	27	99	Qualified	0

32 points above the second place

2x more points than 22nd place (cutoff)

Blue Alliance Insights (before Worlds)

Awards

Top Blue Banner Winners

Number	Teams
5	33
4	125, 314, 1983
3	68, 78, 118, 177, 254, 359, 503, 558, 1023, 1318, 1986, 2337, 2522, 2590, 3467, 4488
2	11, 16, 20, 27, 67, 75, 107, 135, 148, 180, 225, 230, 303, 316, 341, 399, 610, 624, 811, 910, 971, 1108, 1218, 1425, 1540, 1629, 1678, 1718, 1732, 2046, 2052, 2054, 2056, 2067, 2283, 2468, 2486, 2614, 2648, 2907, 2996, 3313, 3937, 4125, 4334

Top Regional & District Winners

Number	Teams
3	33, 118, 125, 177, 254, 314, 359
2	16, 20, 67, 107, 135, 148, 180, 225, 230, 316, 341, 558, 610, 910, 971, 1023, 1318, 1425, 1678, 1983, 1986, 2052, 2054, 2056, 2283, 2337, 2590, 2907, 3467, 3937, 4488

OPR – Offensive Power Ratings

- Oregon City:
  - 74.53 (highest at the event)
- Wilsonville:
  - 75.55 (highest at the event)
- PWN Championship:
  - 100.08 (highest at the event)
  - Second largest OPR was 81.77 (Team 488)
- Average across all events in the world:
  - 82
  - Ranked 43 out of 2,729 teams in the competition (globally)

Trivia:
Do you know the OPRs of Team 254 (Cheesy Poofs)?
- Central Valley: 91.31
- Waterloo: 126.39
- Silicon Valley: 95.11

World Ranking 2014 (before Worlds)
Chief Delphi - Combined district ranking

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Code:

Rank    Team    Points  Distrct DRank
1       33      339     MI      1
2       4488    337     PNW     1
3       27      330     MI      2
4       2590    326     MAR     1
5       1983    305     PNW     2
6       67      304     MI      3
7       177     303     NE      1
7       195     303     NE      2
9       1718    296     MI      4
10      2337    294     MI      5
11      1318    291     PNW     3
12      230     289     NE      3
13      558     284     NE      4
13      3393    284     PNW     4
15      4911    276     PNW     5
16      314     272     MI      6
17      78      259     NE      5
18      3467    256     NE      6
19      341     253     MAR     2
20      1218    249     MAR     3
21      225     246     MAR     4
22      2137    240     MI      7
23      469     237     MI      8
24      1089    236     MAR     5
25      11      235     MAR     6
25      2907    235     PNW     6
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Districts

PNW – Pacific Northwest
  Oregon
  Washington
MI – Michigan
MAR – Mid-Atlantic Robotics
  Pennsylvania and
  New Jersey
NE – New England
  Connecticut,
  Rhode Island,
  Massachusetts,
  Vermont,
  Maine and
  New Hampshire

We qualified for Worlds

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CHAMPIONSHIP

April 23 – 26, 2014 | Edward Jones Dome, St. Louis MO

FRC Championship

FIRST® Robotics Competition

FIRST 25 years

and we were looking so good...

Galileo landscape

- 98 teams
- Classified teams according to:
  - finalists or winners (F/W)
  - district championship or regional event (D/R)
- 2/3 of the teams matched the criteria
- 1/2 of the teams were DW or RW
- Very strong competition

Championship results

- Record: 8-2-0
- Ranked 11 in qualification round
- More teleop points than any other team in the Division
- OPR: 79.2 - #11 in the division (Blue Alliance)
- Final OPR: #42 in the world (Chief Delphi)
- Qualification points: #6 in the world (Chief Delphi)
- Division finalists:
  - Second time a PNW team plays in Division Finals at Worlds
  - First Oregon team to reach Division Finals was 1510 in 2005
- *Pit Safety Award!*

The results are great!

Indiana Robotics Invitational (IRI)

- http://www.indianaroboticsinvitational.org/

- YouTube: search for "IRI 2013"

- Event started in 2000

- Mission:

  Host an enjoyable, high quality, and well-organized *FIRST* Robotics Competition event, bringing together top competitive and strong character teams from across the *FIRST* community.

- In 2014:
  - 135 applicants
  - 76 invitations – Our team is in the list!
    - Only two other PNW teams are in the list: 1318 and 2928
    - No PNW team was ever invited for this event

Indiana Robotics Invitational (IRI)

List of invited teams

11MORT
16Bomb Squad
20The Rocketeers
27Team RUSH
33Killer Bees
45TechnoKats Robotics
51Wings of Fire
67The HOT Team
71Team Hammond
74Team C.H.A.O.S.
107Team ROBOTICS
108SigmaC@T
118Robonauts
125NUTRONS
148Robowranglers
175Buzz Robotics
179The Children of the Swamp
195Cyber Knights
225TechFire

233The Pink Team
234Cyber Blue
254The Cheesy Poofs
330The Beach Bots
334TechKnights
340G.R.R. (Greater Rochester Robotics)
359Hawaiian Kids
368Team Kika Mana
384Sparky 384
399Eagle Robotics
447Team Roboto
469Las Guerrillas
494Martians
503Frog Force
573Mech Warriors
610The Coyotes
624CRyptonite
862Lightning Robotics
868TechHOUNDS
910The Foley Freeze
1023Bedford Express

1024Kil-A-Bytes
1108Panther Robotics
1114Simbotics
1126SPARX
1241THEORY6
1310RUNNYMEDE ROBOTICS
1318Issaquah Robotics Society
1477Texas Torque
1619Up-A-Creek Robotics
1625Winnovation
1640Sab-BOT-age
1718The Fighting Pi
1732Hilltoppers
1741Red Alert
1817Llano Estacado RoboRaiders
2013Cybergnomes
2056OP Robotics
2175The Fighting Calculators

2337EngiNERDs
2451PWNAGE
2468Team Appreciate
2481Roboteers
2590Nemesis
2614MARS
2848The All Sparks
2867ElkLogics
2928Viking Robotics
3098The Captains
3147Munster HorsePower
3467The Windham Windup
3478LamBot
3683Team Dave
4039MakeShift Robotics
4265Secret City Wildbots
4334Alberta Tech Alliance (ATA)
4488ShockWave