



2004 Video Strategy



Welcome!

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VIDEO Scouting Agenda



WELCOME & Overview **2 Min** 

Introduction of S.O.A.P. **5 Min**

**How is VIDEO SCOUTING
used to improve strategy?** **8 Min**

- 1999 Motorola Midwest Regional
- 2002 KSC Regional
- 2003 Florida Regional
- 2004 Midwest Regional (with VIDEO Example)

Dangers of VIDEO SCOUTING **5 Min**

Other uses of SOAP VIDEO **2 Min**

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WELCOME



Kenny Ardizzone

**Motorola iDEN Software Development
Plantation, FL**

FIRST Participant since 1995
Student, Alumni, Engineer

Team 108 - SigmaC@T
Motorola & Dillard HS & Taravella HS

Innovator of soap108.com

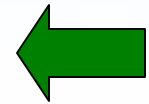
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What is SOAP?



SigmaC@T Opponent Analysis Program Search Out Alliance Possibilities

- Scouting Database
 - Enter and Search Robot Abilities
 - Find out General Team Info
- An Enhancement and Service to FIRST
- Collection of Match Scores and Rankings
 - The “ESPN” of FIRST
- The #1 Digital VIDEO Archive in FIRST
 - Individual match 2:00 movies since 1999
 - 150+ GB of Bandwidth in 3/03, 185+ GB in 3/04

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Why is SOAP Needed?



- **Tough to track** the **growiNG** # of Teams
- Can't send scouts to every match
- Can't watch or visit every regional
- "Clean up" your strategy for Q-Matches
- Pick the right alliance partner for Elims
- **VIDEO! - SEEING is BELIEVING**
 - Truth factor of Pit Scouting
 - Trust, but Verify
 - "Fast" vs. "10 pt ball in 5 seconds"
 - Learn a Team's Autonomous mode

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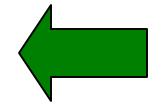


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Success – 1999 MMR



**SigmaC@T makes #5 seed, but
Who do we pick as an ally?**

**Mental recollection and written notes
suggested certain teams.**

SOAP VIDEO was the best deciding factor

**VIDEO helped team leader predict the winner
of each elimination match, except the two we
lost in the finals 😊**

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Success – 2002 KSC



Team 343's Story

Didn't scout the opponents too well

SOAP lent 343 Strategy Tips
and **showed them VIDEO** of their
opponents' weaknesses

Team 343 **won 1st place** at the regional

Nice thank you letter from Metal-In-Motion

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Success – 2003 FL



Team 168's Story

Picked Team 108 as Ally,
didn't know Elimination Strategy
but knew that we knew.

How? We use VIDEO Scouting to the full
and had the right strategy against
each opponent.

The 168, 108, 212 alliance **wins 1st place**

**CONGRATULATIONS
ON ANOTHER SUPER
SEASON!**



**2003 Florida
Regional Champs**



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Failure – 2004 MMR



Team 108's Story

Spent Friday night **preparing** for final two matches on Saturday

Reviewed SOAP VIDEO of each opponent and ally in both matches.

Knew what we had to do to **win**...hang!

Lost both matches..... Why?

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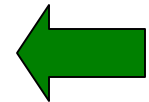
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Pitfalls of VIDEO

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Does not **GUARANTEE** a Win.

Strategy doesn't mean much w/o a working robot or when a **driver makes a mistake**.

Camera crew often **focuses on one team**, not whole field.

Teams change over time. Don't watch just one movie.

Must go to Pit and find out details of why a team lost a match. **Did they correct the error?**

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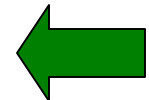
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Other Uses for VIDEO



Archive – DVD

FIRST History, Digitized

Team Highlight Reel, Brag Sheet

Promotional Items

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Award Party in post-season
Re-live those great memories

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Thank you!



Visit the website.

Learn about past robot designs.

SEE what worked and what didn't.

Can you digitize video or send us VHS of your regional? Contact us.

Q+A