



**Robotics Team**

# 2001-2002 Team Handbook



*1 / 1<sup>th</sup>  
Year*

# DELPHI

**Automotive Systems**



## Purpose

This Handbook is an information source and communication tool for the TechnoKats Robotics Team, their supporters, families, and for other FIRST Robotics Teams.

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This handbook is current as of 8/22/01. Details may change as the year progresses, especially the schedules on pages 6-7. For current schedules, check [www.technokats.org](http://www.technokats.org), or see Tim Railey or Andy Baker.

## TechnoKats Partnership

This partnership is between these organizations:

Kokomo High School	managing partner
Delphi Automotive Systems	managing partner
Cinergy/PSI	supporting partner*
Ivy Tech State College	supporting partner*

Active members of the TechnoKats Robotics Team include:

- Kokomo High School students
- Kokomo High School teachers
- Kokomo Area Career Center teachers
- Ivy Tech State College teachers
- Delphi Automotive Systems employees
- Parents of KHS students

The partners on this team provide the following:

Kokomo Center School Corporation:

- Students & sponsoring teachers
- Travel costs of teachers to Nationals

Delphi Automotive Systems

- Majority of team costs
- Engineer mentoring
- Materials and tools
- Vehicles (truck and trailer)

Ivy Tech State College\*

- Animation project – teaching & mentoring
- Hosting of workshops (fabrication, design, etc.)
- Travel costs of instructors to Nationals

Cinergy/PSI\*

- Host of the TechnoKat's shop

\* - Ivy Tech and Cinergy are new partners for the 2001-2002 year

## Team Goals

- Inspire students about technology, math & science
- Prepare students for leadership roles
- Promote the ideals of FIRST
- Increase community and state awareness of science and technology education opportunities
- Promote teamwork skills
- Introduce students to positive role models

## Team History

The TechnoKats Robotics Team ([www.technokats.org](http://www.technokats.org)) competes in the FIRST Robotics Competition ([www.usfirst.org](http://www.usfirst.org)) as “team 45”.

FIRST (For Inspiration and Recognition of Science and Technology) is an organization that focuses on **inspiring** students about math and science. FIRST sponsors a nationwide robotics competition, where many high school students and adults get very excited about technology and compete within a challenging and fun atmosphere.

The 2000-2001 season is the eleventh season for the TechnoKats and FIRST. In 1992, the Kokomo HS – Delco Electronics partnership was one of 28 teams to compete in the inaugural FIRST Competition. Since then, FIRST has grown to include over 600 teams from across America. Our team’s partnership has also grown. While Delco became Delphi-Delco, the TechnoKats have made a name for themselves. The TechnoKats are a leader in the FIRST community and have received many awards, including:

**1992 National Competition Runner-Up**

1994 Chairman’s Award Finalist

1995 Chairman’s Award Finalist

**1998 National Competition Champion**

1998 National “Technical Excellence” Award

1998 Great Lakes Regional Runner-Up

1998 Great Lakes Regional “Best Play” Award

**1999 National Competition Runner-Up**

1999 Midwest Regional “Outstanding Defense”

2000 National “Xerox Creativity” Award

2000 Midwest Regional Champion

2000 Great Lakes Regional Runner-Up

2001 National Competition #1 Seed & Finalist

2001 Midwest Regional GM Industrial Design Award & Finalist

2001 W. Michigan Regional Leadership in Controls Award & Finalist



More important than getting awards, students are getting inspired. Many TechnoKat alumni are pursuing science and engineering majors at prominent universities, and some have begun technical careers in the workforce. This is proof that FIRST is inspiring and that being a TechnoKat is rewarding.

Along with students getting inspired, engineers and teachers are having fun while sharpening their design, teaching and leadership skills. This group of mentors work closely together and learn from each other.

## Team Organization

### **Kokomo Center School Corporation:**

Tim Railey	Teacher	Lead Sponsor
Judy Harris	Teacher	Fundraising & Finance
Chris Byam	Teacher	Shop Boss
Darla Stahl	Administrator	Travel & Team Coordinator

### **Delphi Automotive Systems:**

Andy Baker	Lead Engineer / ME
Jeff Burch	Administrator / EE
Mike Carmain	EE / Programming
Dave Church	EE
Bob Clawson	Chemical Engineer
Gabriel Gallegos	Lead Programmer / EE
Bill Gray	Executive Sponsor
Curt Hyman	Animation / EE
Paul Norris	Team Relations / CeramicE
Mark Koors	Systems Engineer
Jane Powers	Public Affairs
Shirley Ryan	Marketing / Mentoring
Randy Simpson	Fabrication
Mike Stahl	Lead Electrical / Electrician
Tom Sweeny	Animation / EE
Kit Gerhart (retired)	Mechanical Design / Assembly
Ross Jordan (retired)	ME

### **Ivy Tech State College:**

Vearl Turnpaugh	Technology Division Chair
Daniel Ward II	Design Technology Chair
Kyle Wiley	Visual Communications Chair
Luke Ward	CAD / Graphics Instructor

### **Other Adult Team Members:**

Michelle Burch	Webmaster / Graphic Design
Kim Gilbert	Assembly / Debug / Strategy
Marty Menges	Parent Coordinator
Carrie Bush	Parent Coordinator

### **Students:**

25 students return for the 01-02 year, with many Seniors and Juniors ready to lead and perform. Of those 25, 7 are female and 18 male. We hope to increase these numbers, as we welcome more Kokomo HS students for the 2001-2002 year.

Students can be involved in design, leadership, marketing, publications, public relations, fabrication, CAD, scouting, and animation projects as they develop their skills and have fun.

# Team Leadership Positions

## Team Administration:

	Lead Adult	Lead Student
Corporate Sponsor Co-Lead	Andy Baker	
School Sponsor Co-Lead	Tim Railey	
Student Team Leader		_____
Fundraising	Judy Harris	_____
Recruitment Coordinator	Andy Baker	
Team Building Events	Paul Norris	
Team Mentoring & Spirit	Shirley Ryan	_____
Parent Coordinator	Marty Menges	
Web Master	Michelle Burch, Luke Ward	_____
Public Affairs Coordinator	Shirley Ryan	_____
Shop Boss	Chris Byam	_____

## Fall Projects:

Bona Vista Design & Build	A.Baker, J.Burch	_____ *
Light Circuit Fundraiser	Curt Hyman	_____ *
Chief Delphi Invitational (CDI)	tbd	_____ *
Ball Drop Event	Tim Railey	_____ *
Indiana FIRST Workshop	A.Baker, Vearl Turnpaugh	_____ *

## FIRST Competition project leaders:

Mechanical Team Leader	Mark Koors	_____
Electrical Team Leader	Mike Stahl	_____
Software Development Leader	Gabriel Gallegos	_____
Marketing Coordinator	Shirley Ryan	_____
Chairman's Award Leader	C.Byam, P.Norris	_____
Videographer	tbd	_____ #
Photographer	tbd	_____ #
Animation Team Leader	Dan Ward, C.Hyman	_____
Competition Leader	Andy Baker	_____
Scouting Leader	tbd	_____
Driver/Operator Coach	tbd	Driver, Operator, HP- tbd
Pit Boss		_____
Travel Coordinator	Darla Stahl	
IRI Coordinator	Tim Railey	

\* - These positions are chosen by the project leaders and team leaders.

# - These positions will be chosen by the Chairman's Award leaders

All other student leadership positions will be chosen as specified on the student leadership application on pages 14 & 15.

## Fall Schedule

Blue = Meeting

Red = Activity or Event

8/29	Wed	2:30	Veterans Meeting	
9/4	Tue	2:00	BV-Project Kickoff	Bona Vista
9/5	Wed	2:30	Recruitment Meeting	KHS Rm281
9/8	Sat	7:30am	Day of Caring (7:30-3:00)	KHS
9/11	Tue	tbd	Eastern HS Science Fair Demo	EHS
9/12	Wed	4:00	BV-Concept Design Review	
		7:00	Recruitment-Student/Parents	KHS Café.
9/19	Wed	1:00	Plant Tour – Delphi (1/2 day students)	CTC
9/26	Wed	2:30	Student Meeting	
		4:00	BV-Final Design Review	
10/2-4	Tue-Th	all day	Assembly Technology Expo	Chicago
10/3	Wed	4:30	General Meeting	
10/6	Sat	9-4	Indiana FIRST Workshop	Ivy Tech
10/10	Wed	2:30	Student Meeting	
10/15	Mon	1:30	BV-Board of Directors Meeting	Bona Vista
10/17	Wed	2:30	Purdue Tour??	
10/20	Sat	all day	Ford Sweet Repeat Competition	Michigan
		all day	Tech-Know-Fest	Ivy Tech
10/24	Wed	tbd	BV-Final Project Presentation	tbd
		4:30	General & Parents' Meeting	
10/26	Fri.	8:00am	SolidEdge CAD training	
		eve.	Dinner/Fundraiser?	tbd
10/30	Tue	6:30	Paint ball	Blast Factory
11/7	Wed	2:30	Student Meeting	
11/14	Wed	4:30	General Meeting	
11/17	Sat.	all day	Chief Delphi Invitational	Michigan
11/28	Wed	7:00pm	Team Builder (bowling?)	
12/5	Wed	2:30	Student Meeting	
12/12	Wed	4:30	General Meeting	
12/27	Thur	1:00	Ball Drop Instal & Practice	Downtown
12/31	Mon	1:00	Ball Drop Practice (final setup)	Downtown
12/31	Mon	10:30pm	Ball Drop	

All 2:30 Student meetings are conducted by the student leaders.

All 4:30 General meetings are conducted by Tim Railey and/or AndyBaker.

(see page 9 for more info on these meetings)

Both students and adults are encouraged to attend any meeting or activity.

This schedule is subject to change. It is current as of 8/9/01. Any published schedule after 8/9/01 replaces this schedule.

## Winter/Spring Schedule

(tentative, to be finalized by Kickoff)

Blue = Meeting

Red = Activity or Event

Magenta = Deadline

1/5	Sat	9:00am	Kickoff*	Kresge Aud.
1/9	Wed	4:30	General Meeting*	TKat Shop
1/12	Sat	10:00	Design Presentations*	
1/16	Wed	4:30	Team & Parents Meeting*	
1/20	Sat		Travel Deposits due (\$100 – non-refundable)	
1/23	Wed	4:30	Team Meeting*	
1/30	Wed	4:30	Team Meeting*	
2/6	Wed	4:30	Team Meeting*	
2/13	Wed	4:30	Team & Parents Meeting*	
2/16	Sat	9:00	Clean up* & Open House (1-4:00)	
2/17	Sun		Student travel list confirmed, \$\$\$ due	
2/18	Mon	12:00	Long work session (no school)	
2/19	Tue		Ship Date	
2/26	Tue	4:30	Team Meeting*	
3/?	Th-Sat		Regional #1	
3/?			Team Meetings (time and date tbd)*	
3/?	Th-Sat		Regional #2	
4/1-5			KHS Spring Break	
4/?			Send off Party	
4/??	Th-Sat		Nationals	
5/?	Sat	8:00am	IRI - Hoosier Havoc	Memorial Gym
5/15	Wed	6:00	Awards Party	Delco Park

### Daily Work Sessions:

During the “Build Season” (between Kickoff (1/5) and Robot Ship (2/19)) team members will be working in the Tkcat Shop at these times:

Monday-Thursday:	2:30-5:00
Friday:	off
Saturday:	9:00-4:00
Sunday:	12:30-4:00 (if needed)

During the “Competition Season” (between 2/25 and Nationals), team members will be working in the Tkcat Shop at these times:

Monday:	off
Tuesday-Thursday:	2:30-5:00
Friday:	off
Saturday:	12:00-4:00 (if needed)
Sunday:	off

\* - These meetings are important and all team members are encouraged to attend.

## **Scholarship: Requirements & Opportunities**

According to the student contract (see pg. 12), each student must maintain a “C” or above average in EACH of their courses in order for that student to be eligible for team travel. Students will complete and submit 3-week and 6-week grade reports in order to verify their grade status. See Mrs. Harris for grade sheets. Students **will not** travel with the team if they do not complete these grade reports.

### **GRADES ARE A PRIORITY:**

This grade requirement is strict and is not trivial. Students should put their grades before any team needs. There are no exclusions or exceptions to this requirement.

### **ASSISTANCE:**

In order to help the students meet this requirement, study tables and tutoring will be available for students who are in need of assistance.

There are many **REWARDS** for being a TechnoKat:

1. Scholarships
  - Each graduating senior will receive \$100 per year of team membership (in full) as a college scholarship. Also, they must have at least one other year as an active member. This reward will not happen if fundraising goals aren’t met.
  - There are MANY other scholarships available for FIRST Team members. Check out [www.usfirst.org/Scholarships/](http://www.usfirst.org/Scholarships/).
2. Internships
  - The experience TechnoKats are exposed to opens doors for internships within Delphi-Delco and other high-tech companies.
  - Delphi-Delco hires college-aged interns and also high school seniors-to-be to work at the Kokomo facility. For more information and timing on this, see Andy Baker
3. Experience
  - Many corporations across the nation are participating in FIRST and want to hire FIRST students. Being on a FIRST team will expose students to these corporations and also help teach the skills that these companies desire.

## Meeting Outlines

**FALL SEMESTER:** Four types of meetings will take place:

**1. General Meetings – 4:30 - TechnoKat Shop (1 hr.)**

Andy Baker and/or Tim Railey will run these meetings.

We will discuss:

- administrative topics
- finalize decisions made during student meetings
- give financial updates
- plan team events (TK Challenge, Ball Drop, FIRST Competitions, IRI, etc)

At the end of these meetings, any issues that the entire team does not need to be involved in may be discussed. Parents are always welcome at these meetings.

**2. Student Meetings – 2:30 at TechnoKat Shop (1 hr.)**

The “lead student” and another student leader will be in charge and set the meeting agenda. Students are responsible for the content of the meetings and can ask for sponsors’ help with planning the meeting. These meetings must be productive and good for the team.

- Fundraising Issues (see pg. 10)
- Student leaders chosen Sept. 26
- Students choose involvement area Oct. 3
- Decide on team theme (if needed) Oct. 10
- Chairman’s Award Plan/Outline Nov. 7
- Uniforms, trinkets & give-aways Nov. 14th
- Marketing plan (for competition) Nov. 14th

**3. Team Building Exercises and Events - tbd**

TechnoKats will have more fun this year, whether they like it or not. This will increase trust and respect.

**4. Workshops & Animation Sessions w/ Ivy Tech - tbd**

Ivy Tech State College will be helping the TechnoKats again this year with the team’s Animation entry. Weekly instructional sessions will take place at Ivy Tech in the fall and more work will take place in the spring.

## **SPRING SEMESTER:**

There will be daily work sessions and many events during this time. For a more complete schedule, see the TechnoKats website ([www.technokats.org](http://www.technokats.org)) or the Schedule on pg 7.

Along with these work sessions, team meetings will take place on Wednesdays at 4:30.

## Fundraising and Financial Issues

Much money is needed to participate in the projects the TechnoKats are involved in. The team is fortunate to have excellent sponsors, but students must still raise a fair share of money to travel to the National Competition. The following is a description of how the team is funded.

Costs covered by Delphi-Delco:

- FIRST Competition entry fees
- Robot parts & materials
- Playing field costs
- Team uniforms and marketing items
- Regional Competition travel for entire team
- National Competition travel for Delphi employees and 2 teachers
- Dollar-for-dollar matching of student fundraising efforts (up to \$10k)
- Raw materials, metalworking tools, and fasteners (dept.120)
- Awards for team members & senior scholarships

Costs covered by TechnoKats' not-for-profit "club fund" (these are either self-funded or funded by student fundraising)

- Ball Drop event costs
- Student portion of FIRST National Competition (see below)
- IRI Competition costs
- Any Non-FIRST Competition costs (BOMB, Kettering, Sweet Repeat, etc.)

Costs covered by Kokomo Center School Corporation:

- Teacher sponsor contracts (4)
- National Competition travel for 2 teachers
- Transportation to/from Regional Competitions and airport for Nationals

## **STUDENT FUNDRAISING**

For the past few years, each student has raised \$350-\$420 in order to fund their share of the travel to the FIRST National Competition. A variety of fundraisers are held over the course of the year to raise the money. Some students still need to pay an amount out of their pocket (or their parents) to make up the difference of what was not fundraised. In the 2000-2001 year, students participated in these fundraising events:

Sold win-win cards

Sold candy

Built a turntable for Johanning Museum

Sold Valentine's day flower

Used and passed out Hacienda certificates

Sold cokes / hot dogs / misc.

Individual student or parent input

## Student Involvement

TechnoKat students have many ways to be involved with the team. In the fall, they participate in the team events and meetings. Starting in January, students are required to become more active members of the team and really get involved in the FIRST program. These opportunities are available for students:

- Team leadership positions
- Mechanical Design
- Electrical Design & Software Development
- Shop Management, Parts Fabrication & Assembly
- Marketing, Publicity & Public Relations
- Journalism & Media Publications
- Fundraising
- CAD and 3D Animation
- Strategy Development, Robot Operation & Gameplay

In order to travel with the team, students are not only required to meet the grade requirements (pg. 5), but they also must be active members.

Student involvement will be addressed during meetings on two important dates.

- **Jan. 20<sup>th</sup>**: Students' non-refundable \$100 travel deposits are due. At this date, if a student is not as active as they should be, they will be notified to increase their level of involvement. These students are "on the bubble" with regards to travel.
- **Feb. 17<sup>th</sup>** is when students are required to pay the balance of their money needed to travel with the team. Also, students who are "on the bubble" will be notified if they have been approved to travel with the team. If not, they are still welcome to be a part of the TechnoKats, but not as a travelling member.  
Note: The Feb. 17<sup>th</sup> date may be earlier due to travel deadlines.

Students will have the ability to record their productivity and accomplishments by using sheet 9 in the Team Handbook and by keeping their own student journal. Students are not required to be at the TechnoKat Shop in order to be productive, but they do need to stay active with the team during January and February in order to travel with the team.

## CAD Animation Team

Included in the TechnoKats Robotics Team is the Animation Team. This team consists of Kokomo High School students, instructors of Design Technology from Ivy Tech State College, and engineers from Delphi Automotive Systems.

The Design Technology mentors at Ivy Tech State College provide Computer-Aided Drafting and Design (CADD) instruction and use this information to construct the animation for the FIRST Robotics Competition.

The Animation Team focuses on these points:

1. Provide an environment conducive to the development of technical knowledge, technical proficiency, and critical thinking skills so FIRST animators may develop useful skills in their education in addition to the robot animation.
2. Their program utilizes state-of-the-art computers and software including AutoCAD 2002 and 3D Studio MAX 4.0.
3. They will also be prepared to respond to future advances and changes in their educational pursuits.

**The FIRST Animation Team will be meeting at these times:**

**FALL: Fridays @ 2:30 in the Ivy Tech CAD room,  
from Sept. 14 to Dec. 7 (not on Nov. 23)**

**SPRING: more sessions are needed during this time, but  
times are to be determined.**

Here is some more info on CAD Animation:

FIRST animators learn to use a computer-aided solids modeling software system to visualize and create realistic 3D models. Animators will also use rendering, shading, texture mapping, and animation techniques to simulate effects of materials, finishes, and surface graphics.

### **CGI:**

As computer-created imagery becomes more and more a part of entertainment and other fields, the acronym CGI has become prevalent. CGI stands for computer generated imagery and

describes virtually any visual information that comes from a computer. Most of the time we think of some sort of shaded 3D graphics because video games and movies include these kinds of computer graphics, and draw attention to the fact that a computer is generating the image.

### **Working in the 3D world:**

Unlike other forms of imaging, three-dimensional computer graphics accomplish their work by creating a virtual 3D environment. The 3D-design approach should be familiar to everyone because we live in a three-dimensional world. The drawback is that in three-dimensional graphics, it's not enough just to design an object's 2D profile. Instead, most objects must be created in three dimensions-a task that is often tedious and time consuming. In 3D graphics, the object-creation process is more like sculpting than drawing because true 3D images require the artist to add depth, as well as the two-dimensional qualities of height and width. The 3D-design process is made even more difficult by the fact that our interface to the object creation process is a flat, two-dimensional video screen. Once all the parts of the subject have been created in 3D Studio, however, you can view the object from every angle and even fly through it.

Here is a screen shot of the 2001 animation entry:



## Shop Skills: Usage and Checklist

	Usage	Accomplishments
Safety:		
FIRST Aid		
Equipment:		
Table Saw		
Band Saw – Metal		
Band Saw - Wood		
Drill Press		
Hand Drill		
Big Lathe		
Small Lathe		
Big Mill		
Small Mill		
Sheet Metal Break & Shear		
Welding & Torch Cutting		
Disk and Belt Sanding		
Wheel Grinder		
Soldering		
Wire Stripping & Crimping		
Skills:		
Screw Identification		
Material Identification		
Drill & Tap for Threads		
Voltmeter Usage		
Control System Identification		
Motor & Wire Identification		
CAD – Animation		
CAD – 3D Modeling		
CAD – 2D Schematics		
Controls - Programming		
Analytical Evaluation		
Presentation		
Graphical Design		
Strategic Game Planning		
Marketing		
Journalism and Publications		

Students: get sponsors to check your usage of equipment and skill performance. Also, record your accomplishments in the space provided or in your journal.

## **Sponsor (adult) Involvement**

TechnoKat adult sponsors are encouraged to help out in any way they can assist the team. The efforts of these sponsors must be student-focused and within the spirit of FIRST. There are many chances to mentor TechnoKat students as a sponsor, such as:

- Mechanical Machine Design
- Electrical Design & Wiring
- Software Devel. & Programming
- CAD – Design, Drafting, Animation
- Metalworking & Part Fabrication
- Carpentry & Construction
- Project Leadership
- Marketing & Public Relations
- Fundraising & Financial Management
- Video & Graphical Publications
- Machine Shop Management
- Strategy Development & Coaching
- Travel Coordination
- Event Planning

Adults volunteer their time to act as coaches and mentors by working with the students after work hours and on weekends.

1. KSC personnel are given a contract for their hours as sponsors.
2. Ivy Tech teachers are teaching resources for the team.
3. Delphi engineers who take time away from their workday to help the team or to travel to competitions must have their supervisor's approval. See Andy Baker for more specifics and a charge number. As for travel, Delphi pays for engineers' transportation and hotels at FIRST events, but not for food.
4. "Other" adult sponsors' travel costs are funded on a case-by-case basis. They may get their travel expenses paid fully or partially by the team, depending on their involvement and level of fundraising.

## **Community Involvement**

The TechnoKats keep active in the local community, as they host events, make demonstrations and support other math and science-related programs for the area's students. These events and activities include:

- Bona Vista Design & Build Project (Aug. – Oct.)
- FIRST Lego League mentoring (Aug.- Dec.)
- Indiana FIRST Workshop (Oct. 6)
- New Year's Eve Ball Drop Celebration (Nov. – Dec.)
- FIRST Robotics Competition (Jan-April)
- Indiana Robotics Invitational (May)
- Numerous demonstrations (all year)

For more information about TechnoKats activities and demonstrations, contact Andy Baker (451-9380) or Tim Railey (455-8021).

## Student Leader Application

The purpose of this application is to help choose the best students for leading roles on the 2002 TechnoKats Robotics Team.

Here is the leadership selection process:

1. Complete & return application by 9/19/01 to A.Baker or T.Railey.
2. Team Sponsors approve/deny each application.
3. Students vote between approved candidates on 9/26.

Name: \_\_\_\_\_

Year in school:                      9   10   11   12

Years on TechnoKats:              1   2   3   4   5

Overall GPA: \_\_\_\_\_ '01 Fall Sem. GPA: \_\_\_\_\_

### **Leadership positions:**

Choose these positions by numbering your 1<sup>st</sup> choice with "1", 2<sup>nd</sup> choice with "2" & 3<sup>rd</sup> with "3" (and so on), if needed.

_____ Team Leader*	_____ Animation Leader*
_____ Lead Mechanical*	_____ Lead Electrical*
_____ Software Development Leader	_____ Marketing Lead*
_____ Chairman's Award Coord. *	_____ Shop Boss
_____ Public Affairs Coord.	_____ Spirit Leader
_____ Webmaster	_____ Fundraising Leader

\* - Must have minimum of 1 year experience.

Other after-school activities (Jan-March 2002): \_\_\_\_\_  
\_\_\_\_\_

Why should you be in this leadership position? :

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Briefly describe your skills that will help you in your position(s):

\_\_\_\_\_  
\_\_\_\_\_

Why are you on the TechnoKats Robotics Team? :

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Student Competition Role Application

The purpose of this application is to help choose the best students for competition roles on the 2002 TechnoKats Robotics Team.

Here is the leadership selection process:

1. Complete & return application by 1/27/02 to A.Baker or T.Railey.
2. Driver Coach tests students
3. Pit Boss and Scouting Chief are chosen by Team Leaders
4. Competition Leader and Driver Coach reduce # of Driver / Operator / Human Player candidates to a maximum of 3 per position before the first Regional.
5. Student candidates are evaluated at the first Regional and the best in each position keep their spot until unseated.

Name: \_\_\_\_\_

Year in school:                      9   10   11   12

Years on TechnoKats:              1   2   3   4   5

Overall GPA: \_\_\_\_\_ '01 Fall Sem. GPA: \_\_\_\_\_

### Competition Positions:

Choose these positions by numbering your 1<sup>st</sup> choice with "1", 2<sup>nd</sup> choice with "2" & 3<sup>rd</sup> with "3", if needed.

\_\_\_\_\_ Driver

\_\_\_\_\_ Scouting Chief

\_\_\_\_\_ Operator

\_\_\_\_\_ Pit Boss

\_\_\_\_\_ Human Player

Other after-school activities (Jan-March 2002):

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Why should you represent the TechnoKats in this position? :

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In your own words, describe "Gracious Professionalism" (use an example, if you wish).: \_\_\_\_\_

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# 2001-2002 TECHNOKATS ROBOTICS TEAM

## STUDENT CONTRACT

By signing below I acknowledge and understand these points:

- I have read the handbook describing the TechnoKats Robotics Team and the FIRST Robotics Competition,
- Participation in the program requires attendance at meetings and that I have received a schedule of those meetings,
- Students are responsible for arranging their transportation to and from the TechnoKats Shop at Cinergy PSI.
- A bus is available to transport students from Kokomo High School to the Cinergy PSI building immediately after school on meeting days, but no bus will be available to pick up students after meetings.
- The team will travel to two Regional competitions and the National Competition at the locations and dates specified in the handbook. Eligible students who choose to go will be absent from school on those days.
- The equipment used during the construction of the robot can cause serious injury if not used correctly. Students are not permitted to use any piece of equipment until they have been instructed on its safe use, and only with adult supervision.

Students are eligible for TEAM TRAVEL if ALL of these are true:

1. Student must maintain an average of a "C" or above in each of their courses. The sponsors will verify the student's grade eligibility and students are to turn in a grade verification sheet to the sponsors at three (3) weeks and six (6) weeks into each grading period. A student study table will be available and tutoring can be arranged for anyone in need of it.
2. Student must pass a test on the game rules and the history of the TechnoKats Team.
3. Student must **Actively** participate on the team. This can be accomplished by attending the meetings, contributing to team activities, and maintaining a "Student Skills Sheet", which will verify and document a student's involvement.

**Note:** Any student whose eligibility is questioned may have their case reviewed by a panel made up of sponsors and designated student(s). Students are encouraged to keep a journal of meetings attended and work accomplished to present as verification to this panel.

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Student's Signature

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Parent's Signature

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Date

## TechnoKats Contacts

TechnoKats	website:	<a href="http://www.technokats.org">www.technokats.org</a>
	Info line:	765-451-FRST (3778)
	Shop Phone	765-454-6124
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Kokomo Area Career Center		765-455-8021
Kokomo High School		765-454-7000
Delphi Automotive Systems		765-451-5011
Ivy Tech State College		765-459-0561
Vearl Turnpaugh		Ext. 419
Dan Ward		Ext. 365
Kyle Wiley		Ext. 375
Luke Ward		Ext. 433
CAD Lab		Ext. 337
FIRST	website:	<a href="http://www.usfirst.org">www.usfirst.org</a>
	Phone #:	800-871-8326 or 603-666-3906
	Team Coord.	Ericka-Leigh Smith x432 <a href="mailto:ericka@usfirst.org">ericka@usfirst.org</a>
Discussion Forum:		<a href="http://www.chiefdelphi.com">www.chiefdelphi.com</a>
Resources:	Overall help:	<a href="http://SharingFIRST.mit.edu">SharingFIRST.mit.edu</a> <a href="http://www.nuts4first.net">www.nuts4first.net</a>
	Indiana FIRST	<a href="http://www.indfirst.org">www.indfirst.org</a>
	Univ. Recruiting	<a href="http://www.buzzu.org">www.buzzu.org</a>
	Parts:	<a href="http://www.smallparts.com">www.smallparts.com</a> <a href="http://www.industrialprofile.com">www.industrialprofile.com</a> <a href="http://www.pic-design.com">www.pic-design.com</a> <a href="http://www.8020.net">www.8020.net</a> <a href="http://www.mcmaster.com">www.mcmaster.com</a> <a href="http://my.grainger.com">my.grainger.com</a> <a href="http://www.item-international.com">www.item-international.com</a> <a href="http://www.innovationfirst.com">www.innovationfirst.com</a>
Media	Kokomo Tribune	765-459-3121
	Kokomo Perspective	765-452-0055
	WZWZ 92.5 FM	765-453-1212
	WWKI 100.5 FM	765-459-4191