

# 2024 VIRTUAL KIT CATALOG

Virtual Kit  
Catalog  
brought to  
you by



together we advance\_

# CRESCENDO<sup>SM</sup>

PRESENTED BY



**FIRST**  
**ROBOTICS**  
**COMPETITION**





# WELCOME

## TO THE 2024 *FIRST*® ROBOTICS COMPETITION SEASON



This Voucher Catalog is a reference for your team. Inside, you'll find additional items and value available to your team via the Kit of Parts system. Each page represents a specific voucher and its particular instructions and details. Don't miss out on any of these opportunities.

*We are extremely grateful for the generosity and support that our FIRST® Suppliers provide!*

**More information about the Kit of Parts can be found at our website:** [firstinspires.org/robotics/frc/kit-of-parts](https://firstinspires.org/robotics/frc/kit-of-parts)  
**Questions about the Kit of Parts can be sent to:** [frcparts@firstinspires.org](mailto:frcparts@firstinspires.org)



## VOUCHER CHECKLIST

Supplier	Redeemed
Altair .....	<input type="checkbox"/>
Altium .....	<input type="checkbox"/>
Armabot .....	<input type="checkbox"/>
Autodesk .....	<input type="checkbox"/>
Automation Direct.....	<input type="checkbox"/>
Clippard .....	<input type="checkbox"/>
DevCycle .....	<input type="checkbox"/>
DigiKey .....	<input type="checkbox"/>
Mastercam.....	<input type="checkbox"/>
MathWorks .....	<input type="checkbox"/>
Next Gen Robots.....	<input type="checkbox"/>

Supplier	Redeemed
NI .....	<input type="checkbox"/>
Plummer Industries .....	<input type="checkbox"/>
PTC.....	<input type="checkbox"/>
REV Robotics .....	<input type="checkbox"/>
RoboPromo.....	<input type="checkbox"/>
SolidProfessor.....	<input type="checkbox"/>
Tableau.....	<input type="checkbox"/>
TE Connectivity .....	<input type="checkbox"/>
Vulcan Spring .....	<input type="checkbox"/>
Wolfram .....	<input type="checkbox"/>





Organization Name

**Altair**

Voucher Detail

**Altair Software Access**

Expiration Date

**12/31/2024**

Shipping

**n/a**

Website

**[altair.com/first-robotics](https://altair.com/first-robotics)**

Open access to many Altair software apps (via renewable 1-year licenses) for all students and mentors. These apps include, but are not limited to, the following:

**Altair Inspire™** – for 3D simulation-driven design & engineering using 3D CAD geometry – to simulate whether robots will functionally perform as intended via structural analysis, topology optimization / generative design, and motion dynamics.

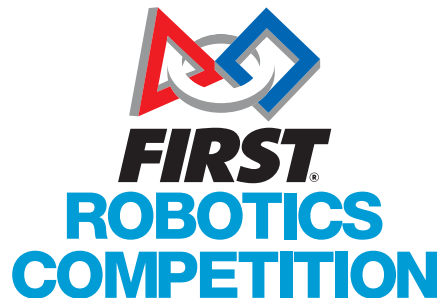
**Altair RapidMiner®** – for code-optional Data Science and AI/ML – especially helpful for rapidly handling, visualizing and analyzing *FIRST®* team scouting data to select optimal Alliance Partners.

**Altair Compose®** – for extremely easy-to-use equation-based (i.e., 0D) engineering modeling & simulation – like “a calculator on steroids.” Serves as an engineering-oriented complement or alternative to Excel, Python, Java, and/or C++.

**Altair Twin Activate™** – for open, multi-disciplinary system simulations, especially of electrified/ electro-mechanical devices such as robots. Helpful block-diagram-based (1D) modeling with easy integration with 3D modeling tools.

**Student Edition Bundle** – provides access to many Altair software products, beyond just those listed above, such as **Altair PSIM™** for modeling & simulating power electronics and power conversion between battery- and-motor systems involving direct current (DC) and alternative current (AC) such as *FIRST* robots. Could also help with power management.

**Visit Altair's dedicated page in support of *FIRST* robotics teams ([altair.com/first-robotics](https://altair.com/first-robotics)).**







# Build Better Robots, Faster.

Get Your Free Software: [altair.com/first-robotics](https://altair.com/first-robotics)





# Altium®

Organization Name

Altium

Voucher Detail

One-year Altium Designer  
student license

Expiration Date

12/31/2024

Shipping

Included

Access Code(s)

n/a

Website

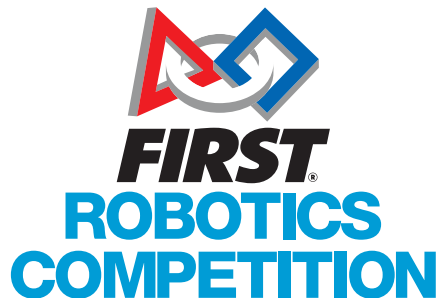
[www.altium.com/frc](http://www.altium.com/frc)

Altium is excited to support *FIRST*®, committed to providing every designer and engineer with tools to enable you to turn your ideas into products in the easiest and most productive way.

- Altium Designer consists of all the tools required to produce a PCB from concept to manufacturing.
- A PCB development platform supplying both the electrical and mechanical view.
- Integrated access to over a hundred suppliers makes it easy to select the best parts for your design.

To access one-year student license, fill out the form [www.altium.com/frc](http://www.altium.com/frc)

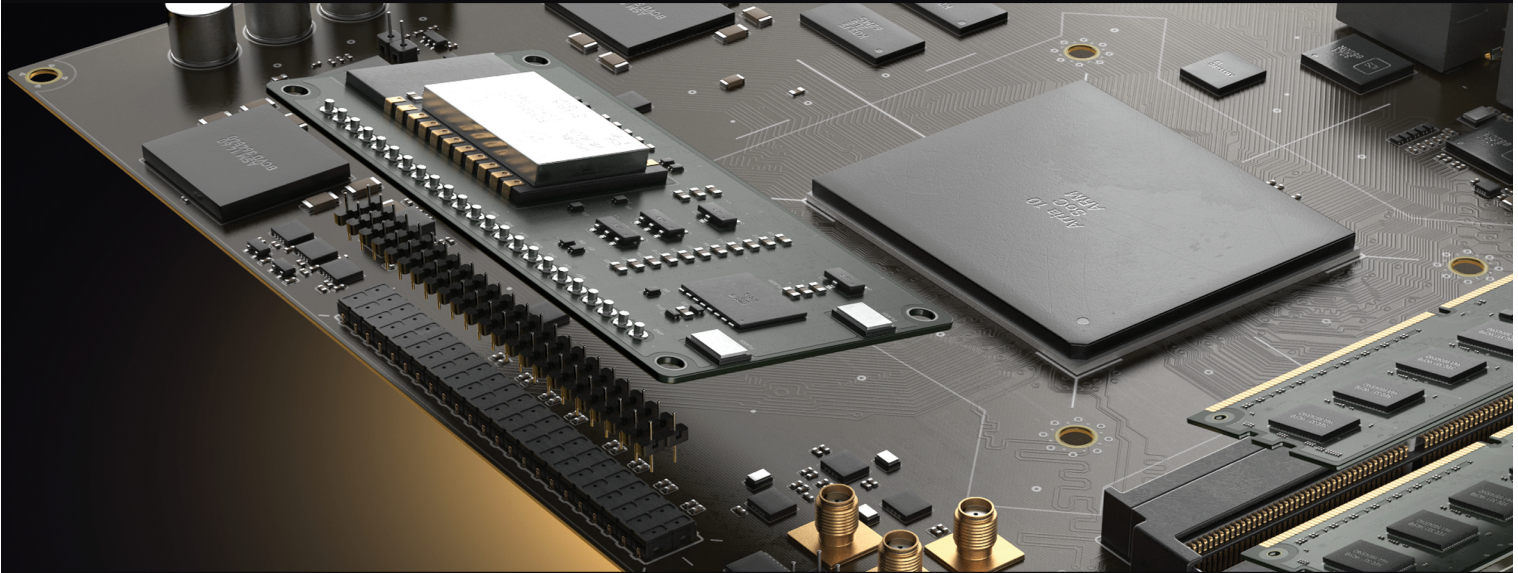
**Special Instructions:** One to five student licenses to be shared per high school team





# Altium®

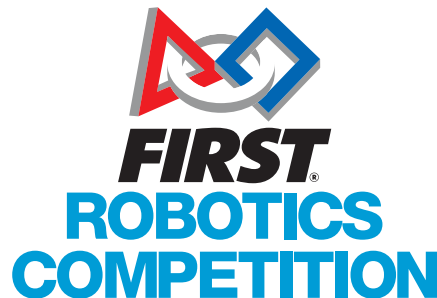
Proud to support *FIRST*®  
POWERFUL TOOLS FOR NEXT GENERATION ELECTRONIC DESIGN



## USE ALTIUM DESIGNER FOR FREE NOW!

[www.altium.com/frc](http://www.altium.com/frc)

# ARMABOT



**Organization Name**

**Armabot**

**Voucher Value**

**One (1) RS7 encoder**

**Expiration Date**

**05/01/2024**

**Shipping**

**Team Responsibility**

**Access Code(s)**

**Visit Team Registration Account**

**(Lead Mentor 1 or 2)**

**Website**

**[www.armabot.com](http://www.armabot.com)**

1. Go to [www.armabot.com](http://www.armabot.com)
2. Select 1 or more RS7 encoders (first unit free with this voucher)
3. Enter your valid code from the *FIRST*® Team Registration System
4. Enter shipping and billing information
5. Place order and wait for arrival (3-5 days in continental USA)
6. Installation instructions at [www.armabot.com](http://www.armabot.com)
7. Technology tutorial for encoder implementation at [www.armabot.com](http://www.armabot.com)

Valid for purchase of one RS7 encoder individually or a multiple product order that includes one RS7 encoder. Limit one per *FIRST*® Robotics Competition Team. Must be registered for the 2024 robotics season. Voucher not transferable to other people or teams.



QUICK INTEGRATION

# Technology Tutorial

CAN bus PID tuning via Talon SRX controller.

EASY INSTALL

## Worm-Drive Clamp

Secure and simple attachment.

COOL RUNNING

## Vented Design

Doesn't interfere with motor air flow.

STRAIN RELIEF

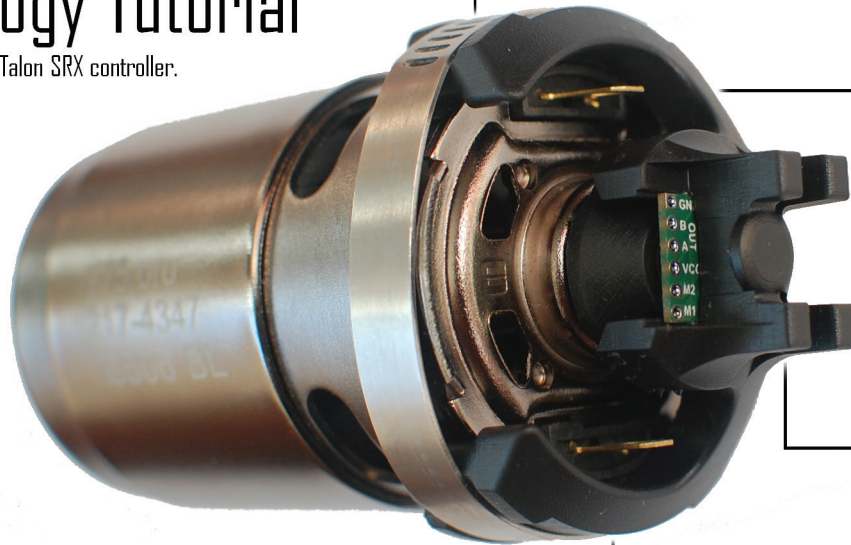
## Secure Wiring

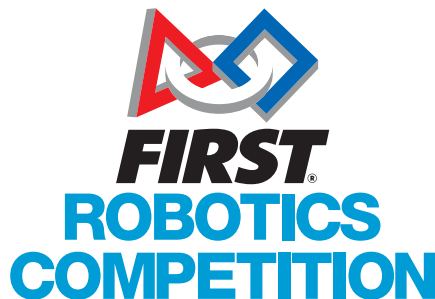
Integrated feature for cable tie.

CUSTOM DESIGNED MOUNT

## 775pro Motor Encoder

Successful use at 2016 & 2017 Championships.





**Organization Name**

**Voucher Detail**

**Expiration Date**

**Shipping**

**Website**

**Autodesk**

**Autodesk Software Access**

**n/a**

**Included**

**[www.autodesk.com/first](http://www.autodesk.com/first)**

**Get started at [www.autodesk.com/first](http://www.autodesk.com/first)** – a dedicated page for everything *FIRST*® Robotics Competition and Autodesk related, including open access to Fusion, Inventor, Synthesis, AutoCAD, and 3ds Max. Autodesk also provides CAD data sets for the Kit of Parts, tutorials, and other learning resources.

**Autodesk® Fusion 360®** – *Software or Browser Access*

Cloud-based CAD, CAM, CAE, and PCB software, enables robot designs, assemblies, photorealistic renderings, fabrication, and team collaboration. Install Fusion 360 (multiple languages available) or run Fusion 360 from [fusion.online.autodesk.com](http://fusion.online.autodesk.com).

**Autodesk® Inventor®** – With this professional software, teams can produce 3D models that help with the design and visualization of the robot.

**Synthesis: An Autodesk® Technology** – Test your CAD designs for driver practice, robot code emulation, strategy, and more with this robotics simulator.

**Autodesk® AutoCAD®** – Use computer-aided design software to create precise 2D and 3D drawings.

**Autodesk® 3ds Max®** – With modeling, rendering, and animation capabilities, 3ds Max is an ideal solution for the VRC Game Design Animation Challenge.

Autodesk, the Autodesk logo, Fusion 360, Inventor, AutoCAD, and 3ds Max are registered trademarks or trademarks of Autodesk, Inc., and/or its subsidiaries and/or affiliates in the USA and/or other countries. All other brand names, product names, or trademarks belong to their respective holders. Autodesk reserves the right to alter product offerings, and specifications and pricing at any time without notice, and is not responsible for typographical or graphical errors that may appear in this document. © 2024 Autodesk, Inc. All rights reserved.

A young woman with long dark hair and black-rimmed glasses is focused on working on a robot chassis. She is wearing a grey sweatshirt. The robot's internal components, including a motor, gears, and various colored wires (yellow, red, black), are visible. She is using a small screwdriver to adjust a component. The background is a plain, light-colored wall.

# Create winning designs

Autodesk is excited to provide open access to our design software, digital fields, and robot part models.

Put your designs to work with our competition simulation software – created specifically for *FIRST*® teams – and get the robot you want on the field faster.

Get started at [www.autodesk.com/first](http://www.autodesk.com/first)

 **AUTODESK**





**Organization Name**

**Automation Direct**

**Voucher Description**

**\$50.00**

**Expiration Date**

**08/31/2024**

**Shipping**

**Team Responsibility** (see below for details)

**Access Code(s)**

**Visit Team Registration Account**

(Lead Mentor 1 or 2)

**More Info**

**[www.AutomationDirect.com](http://www.AutomationDirect.com)**

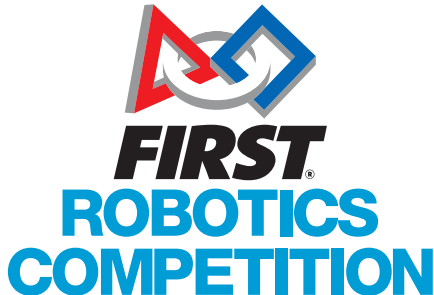
**Use your \$50 voucher toward any items available at [www.AutomationDirect.com](http://www.AutomationDirect.com)**

**IMPORTANT INSTRUCTIONS** - We cannot apply the discount AFTER you place an order!

1. Obtain your voucher code at the Mentor Dashboard at [www.firstinspires.org](http://www.firstinspires.org)
2. Login, OR create a New Account here: [www.automationdirect.com/new-user](http://www.automationdirect.com/new-user)
3. Then visit [www.automationdirect.com/Voucher](http://www.automationdirect.com/Voucher) to enter the voucher code. This will enable a one-time \$50 credit for your account.

**Some Restrictions Apply:**

1. Orders **must** be placed online. No 'call-in' orders.
2. Orders **must** ship to a US or Canadian address. Credit card billing address must also be US or Canadian.
3. The voucher cannot be used towards shipping fees. Orders under \$49 are shipped via 2-day service to US addresses for a flat rate of \$10 (a credit card will be required to pay for shipping). Orders to Canada will incur brokerage fees. Larger orders may qualify for FREE two-day shipping. See website for details: <https://www.automationdirect.com/static/specs/adpolicy.pdf>
4. The voucher cannot be used to pay sales tax. A credit card (or PayPal) will be required to pay any applicable taxes. If your team/organization is tax exempt, you can submit appropriate documentation online during checkout.



# These items are popular with *FIRST*<sup>®</sup> teams:

Miniature Pneumatic Devices



[go2adc.com/fittings](http://go2adc.com/fittings)

Pneumatic Cylinders



[go2adc.com/cylinders](http://go2adc.com/cylinders)

Belts & Pulleys



[go2adc.com/tbp](http://go2adc.com/tbp)

Ferrules, Terminals, and Crimp Tools



[go2adc.com/zfwire](http://go2adc.com/zfwire)

Push connect fittings



[go2adc.com/ptcfittings](http://go2adc.com/ptcfittings)

Ethernet Cables  
(and crossover!)



[go2adc.com/cat5e](http://go2adc.com/cat5e)

Wire Ties



New Colors!

[go2adc.com/sapiselco](http://go2adc.com/sapiselco)

Sensors and Encoders



[go2adc.com/sensenco](http://go2adc.com/sensenco)



**AUTOMATIONDIRECT**.com

1-800-633-0405 | [www.AutomationDirect.com](http://www.AutomationDirect.com)

# Clippard

Organization Name

Clippard

Voucher Value

\$20.00

Offer Expires

12/31/2024

Shipping

Not Included

Access code

FIRST2024

Website

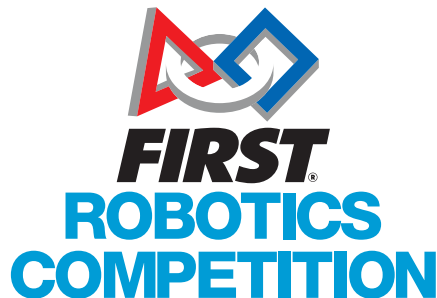
clippard.com

Congratulations on the many successes you have achieved to earn your team a position in the 2024 *FIRST*® Robotics Competition!

As long-time supporters of the *FIRST*® organization, we are proud to provide you with **\$20.00 of FREE Clippard products** for your design needs. Simply visit [clippard.com](https://clippard.com) to select your products, and use the promotional code above at check out.

*Please note that you must create an account AND be logged in for the voucher to be validated.*

*If you need technical assistance, don't hesitate to contact us at 1-877-245-6247.*





# *Clippard*



*Pressure Controls • Directional Control Valves • Electronic Valves • Control Valves  
Isolation Valves • Pinch Valves • Manual Valves • Fittings • Air Preparation Equipment  
Tubing • Custom Valves & Assemblies*

**PRECISION FLOW CONTROL  
PRODUCTS & SOLUTIONS**

[www.clippard.com](http://www.clippard.com)



# DevCycle

**Organization Name**

**DevCycle**

**Voucher Value**

**\$100/season per team platform credit**

**Expiration Date**

**01/01/2025**

**Shipping**

**Included**

**Access Code(s)**

**Visit Team Registration Account**

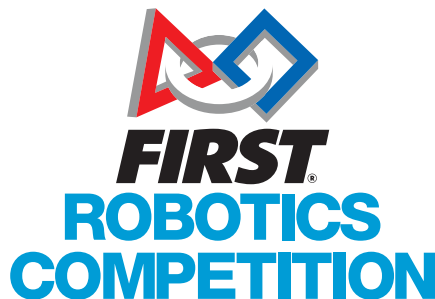
*(Lead Mentor 1 or 2)*

**Website**

**<https://devcycle.com/frc>**

*Adding an additional 200,000 MAU, or 2,000,000 experimentation events, or 5,000,000 EdgeDB operations in addition to the free tier!*

1. Sign up for an account at **<https://devcycle.com/frc>**.
2. Under Settings (<https://app.devcycle.com/r/settings>) - Create an organization with the name being your *FIRST*® Robotics Competition Team Number- ie "FRC 9999"
3. Email [frc@devcycle.com](mailto:frc@devcycle.com) with your account email address, *FIRST* Robotics Competition Team Number, Lead Mentor Name, and the PDV Code found on the *FIRST* Robotics Competition Team Registration System to activate your credit!
4. Once confirmed, invite the rest of your team to your organization and start pushing code safely!





# DevCycle



# DigiKey

**Organization Name**

**DigiKey**

**Voucher Value**

**\$65**

**Expiration Date**

**09/30/2024**

**Shipping**

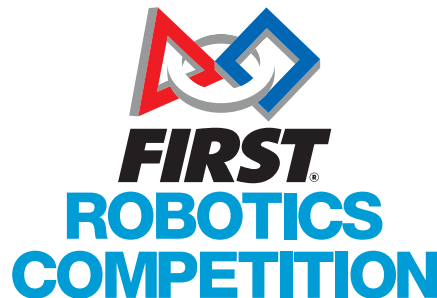
**Included (excludes Marketplace products)**

**Access Code(s)**

**See Team Registration System**

**Website**

**[www.digikey.com/first](http://www.digikey.com/first)**



**DigiKey is proud to provide you with \$65 of components.**

- Visit [www.digikey.com/first](http://www.digikey.com/first) to redeem your team's voucher.
- The \$65 voucher will not display on the total of your order, but will be subtracted from your order during processing.
- This Product Donation Voucher valued at \$65 is good for the purchase of components only at [www.digikey.com](http://www.digikey.com)

*Taxes not included. This voucher is good for a one time use. Any amount not utilized in your initial transaction will be forfeited.*

# \$65 voucher & free shipping

DigiKey has the product portfolio, service, tools, resources, and know-how to support students, coaches, and mentors on *FIRST*® teams.

## Redeem your voucher in 3 easy steps:

1. Visit [digikey.com/first](https://digikey.com/first)
2. Enter your team info
3. Shop at [digikey.com](https://digikey.com)

# DigiKey

\*Free shipping offer does not apply to Marketplace products.





Organization Name

Voucher Value

Expiration Date

Shipping

Access Codes

Website

**Mastercam**

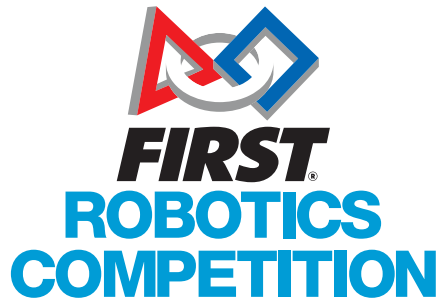
**Three annual licenses of the  
Mastercam Educational Suite**

**10/31/2024**

**Included**

**Visit Team Registration Account**

**[https://www.mastercam.com/community/competitions/  
first-robotics/](https://www.mastercam.com/community/competitions/first-robotics/)**



**Mastercam Educational Suite:** Three free annual licenses of the current version of the Mastercam Educational Suite. The Mastercam Educational Suite includes Mill, Lathe, Wire, Router, Design and Art.





# ***Mastercam***<sup>®</sup>



MILL



MULTIAXIS



LATHE



MILL-TURN



WIRE



ROUTER



DESIGN



ADDITIVE



Organization Name

Voucher Value

Expiration Date

Shipping

Access Code(s)

Website

**MathWorks**

**MathWorks Resources for *FIRST*® Teams**

**08/31/2024**

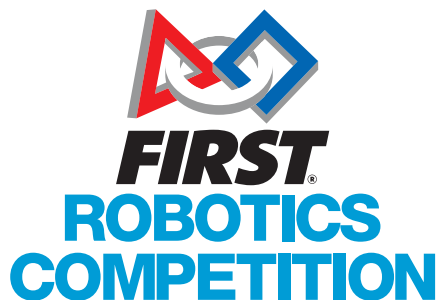
**Included**

**n/a**

**[mathworks.com/first-robotics](https://mathworks.com/first-robotics)**

*MATLAB and Simulink allow students/participants to simulate robots, develop control and navigation algorithms, and optimize their mechanical designs. Please visit our website to request access to MathWorks software as well as find other resources available to FIRST® teams:*

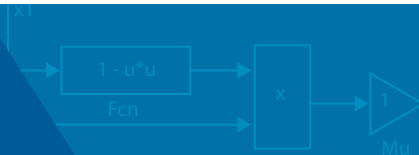
- Software license to over 50 products, including:
  - MATLAB, Simulink, Stateflow, Simscape, MATLAB Coder, Robotics System Toolbox, Navigation Toolbox, Control System Toolbox, Signal Processing Toolbox, Computer Vision Toolbox, Sensor Fusion and Tracking Toolbox and more
- Links to free, 2-hour online courses to get started with MATLAB and Simulink
- Tutorials, videos, and examples for students participating in robotics competitions



```

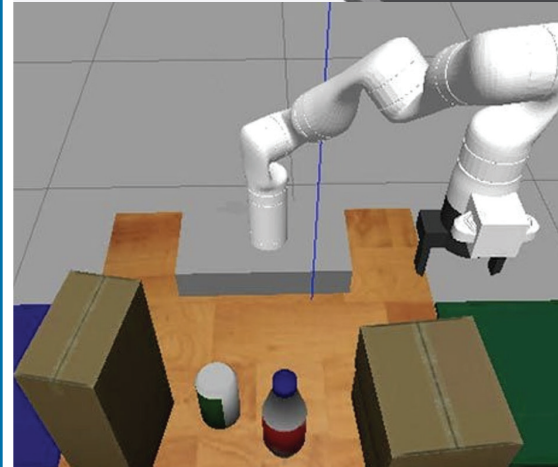
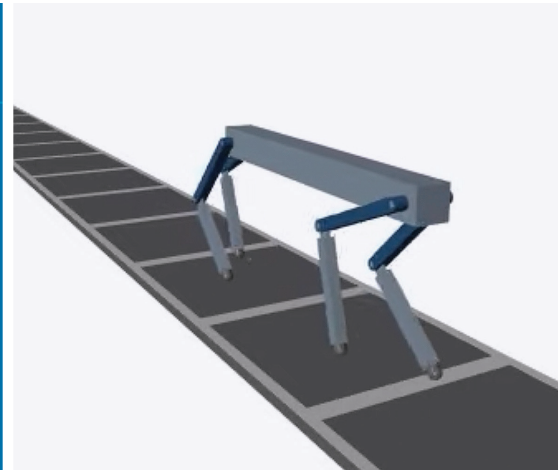
if sym =
if sym = 3,
a = sym;
i = sym + 3*(s;
j = 2:n;
alfa(j) = alfa(j)
l = 6-del;

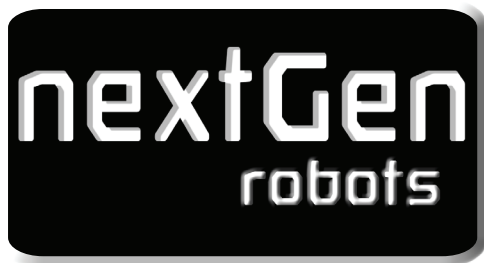
```



MathWorks creates software tools for students, scientists and engineers to design, simulate, analyze, and optimize dynamic systems such as robots

Learn more at  
[mathworks.com/solutions/robotics](https://mathworks.com/solutions/robotics)





**Organization Name**

**Voucher Detail**

**Expiration Date**

**Shipping**

**Access Code(s)**

**Website**

**Next Gen Robots**

**1 CIM Cooler 180 or 775 Cooler 360**

**05/31/2024**

**Team Responsibility**

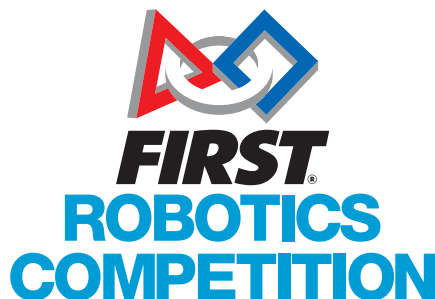
**Visit Team Registration Account**

**(Lead Mentor 1 or 2)**

**[www.nextgenrobots.com](http://www.nextgenrobots.com)**

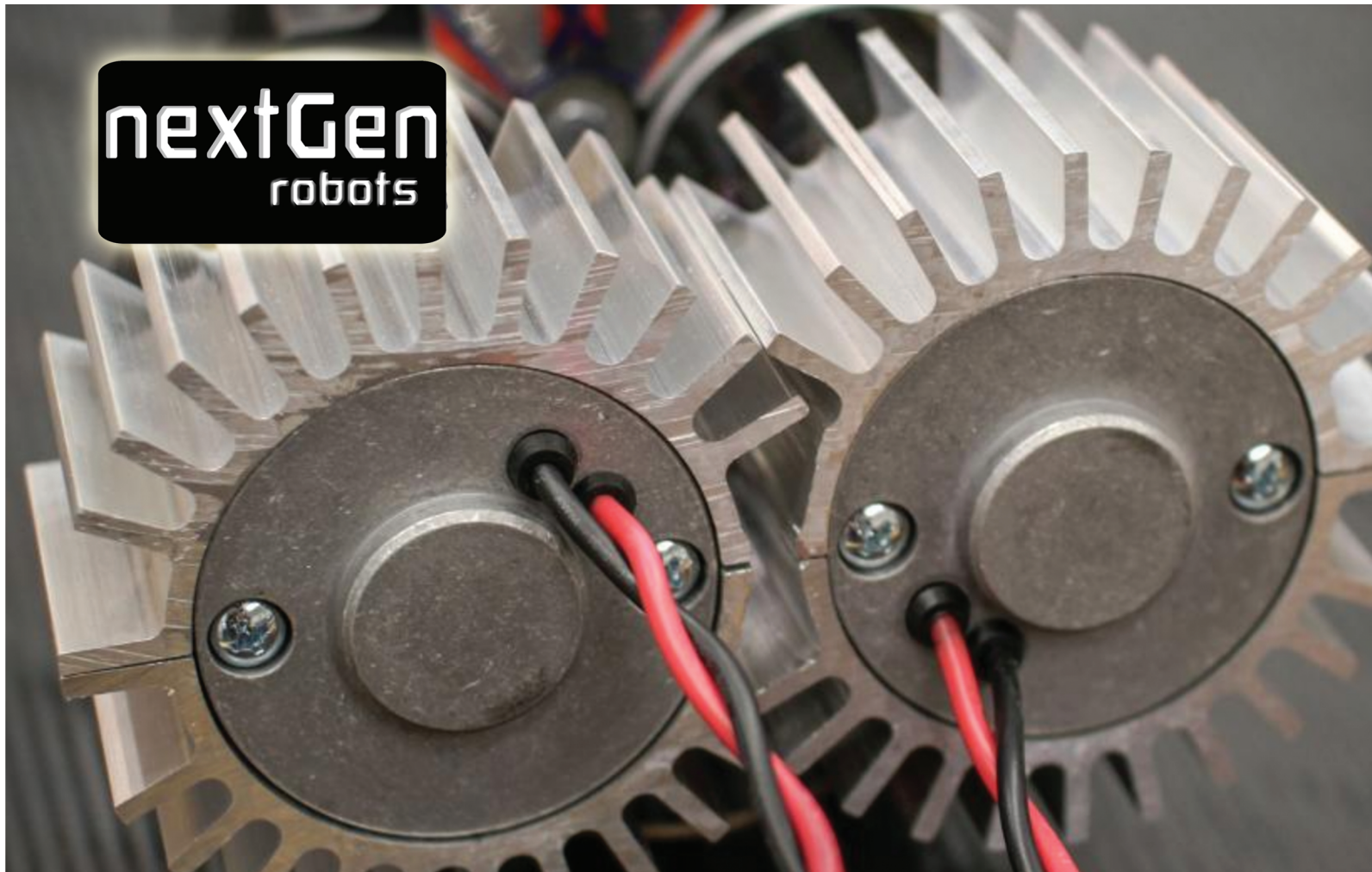
**Attention *FIRST*® Robotics Competition Teams:**

1. Be sure to email [sales@nextgenrobots.com](mailto:sales@nextgenrobots.com) with your Lead Mentor Name, *FIRST* Robotics Competition Team Number, and PDV Code found on the *FIRST* Robotics Competition Team Registration System so that we can make sure that your code is active!
2. Once confirmed, enter the team's assigned code from step 1 into "Coupon code" on your order and the discount will appear during checkout. Do not "Checkout as guest".
3. This coupon can be redeemed for one CIM Cooler 180 (an \$8.00 value) or one 775 Cooler 360 (an \$8.00 value) but products can be purchased in any combination and multiple amounts of the CIM Cooler or the 775 Cooler. After applying the coupon code during checkout, the total will be less \$8.00. Before submitting the order make sure the discount has been applied to the total. If the discount is not showing, try clicking "view cart" and reapply the code.





nextGen  
robots





**Organization Name**

**NI**

**Voucher Value**

**NI LabVIEW Software Suite**

**Expiration Date**

**01/31/2025**

**Shipping**

**Included**

**Access Code(s)**

**Visit Team Registration Account**

**(Lead Mentor 1 or 2)**

**Website**

**<http://www.ni.com/frc>**

This license also provides access to more than a dozen LabVIEW add-ons, NI Multisim for SPICE simulations, and NI Ultiboard for PCB design.

### **1. Access Your Team's Serial Number**

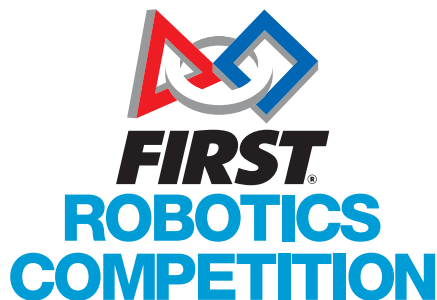
Have your Lead Mentor 1 or 2 log in to your team's account at [www.firstinspires.org](http://www.firstinspires.org) to access your serial number by clicking on "Passwords/Voucher Codes."

### **2. Download Software**

Get NI LabVIEW for *FIRST*® Robotics Competition via the *FIRST* Robotics Competition Resource Hub at [www.ni.com/frc](http://www.ni.com/frc).

### **3. Learn and Earn**

Learn LabVIEW with free online training and earn skills badges at [www.ni.com/frc](http://www.ni.com/frc).





# National Instruments is now NI.

At NI, we believe in the power and potential of making connections – between people, ideas, and technology – to create a path forward.

It's time. Let's Engineer Ambitiously.





**Organization Name**

**Plummer Industries**

**Voucher Detail**

**\$50.00**

**Expiration Date**

**09/30/2024**

**Shipping**

**Team Responsibility**

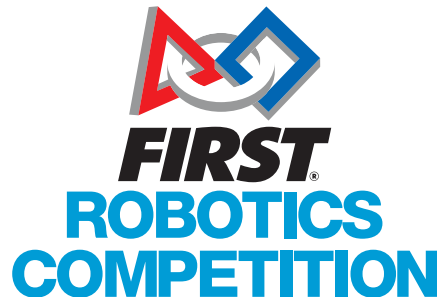
**Access Code(s)**

**Visit Team Registration Account**

**(Lead Mentor 1 or 2)**

**Website**

**<https://plummerindustries.com/robotics/shop>**



***\$50.00 for FIRST® Robotics Competition Teams  
to receive Plummer Industries products***

**To redeem:** *At the start of checkout teams can apply the Voucher code in the promo coupon box.*



# Plummer Industries

Driving Innovation.

**Drive Systems**  
**Quick Connect Bumper Mounts**  
**Gussets and Bearing Mounts**

**Proud Supplier**



[www.plummerindustries.com/robotics](http://www.plummerindustries.com/robotics)

**Follow us @Plummerind**





Organization Name

**PTC**

Voucher Detail

**CAD and Collaboration Software**

Expiration Date

**12/31/2024**

Shipping

**Included**

Access Code

**n/a**

Website

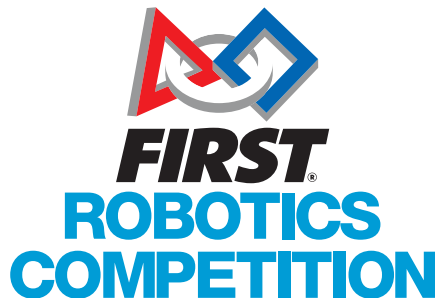
**[ptc.com/en/academic-program/student/first](https://ptc.com/en/academic-program/student/first)**

*Visit the **FIRST®** webpage at [ptc.com](https://ptc.com) to access to the following PTC Software:*

- **Onshape** – Cloud-native 3D CAD software
- **Vuforia Chalk** – Application to facilitate AR remote assistance between team members
- **Creo** – 3D CAD software
- **Mathcad** – Software for engineering calculations

*Visit the **FIRST PTC** webpage for more information:  
<https://www.ptc.com/en/academic-program/student/first>*

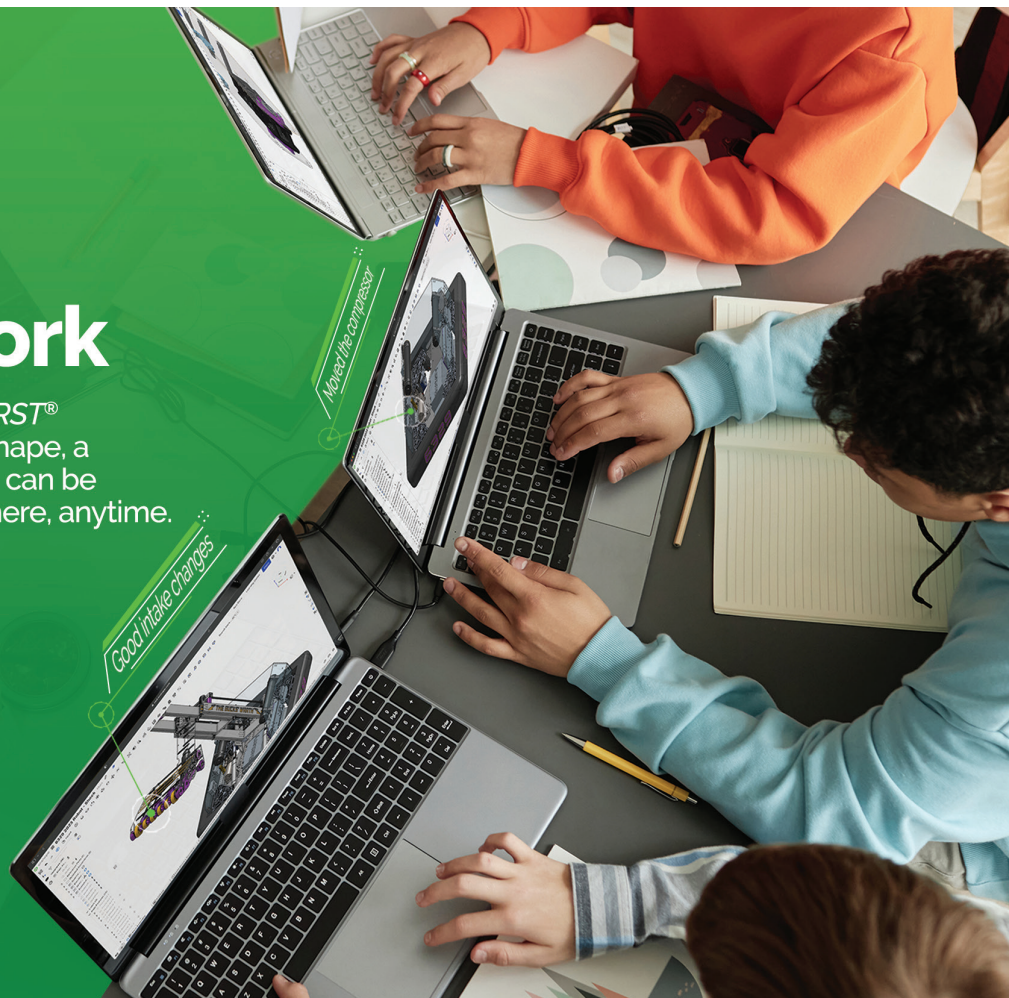
*Send comments or questions to [FIRST@ptc.com](mailto:FIRST@ptc.com)*





# CAD Built for Teamwork

Onshape is proud to support *FIRST*®  
Robotics Competition with Onshape, a  
cloud-native CAD platform that can be  
accessed on any device, anywhere, anytime.





**Organization Name**

**REV Robotics**

**Voucher Value**

**\$50.00**

**Offer Expires**

**05/31/2024**

**Shipping**

**Team Responsibility**

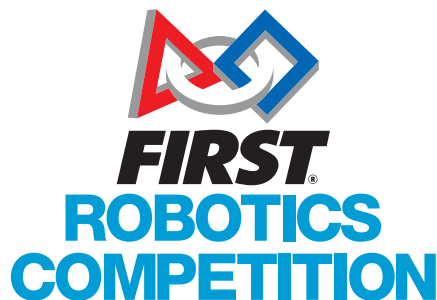
**Access code**

**Visit Team Registration Account**

**(Lead Mentor 1 or 2)**

**Website**

**[www.revrobotics.com](http://www.revrobotics.com)**



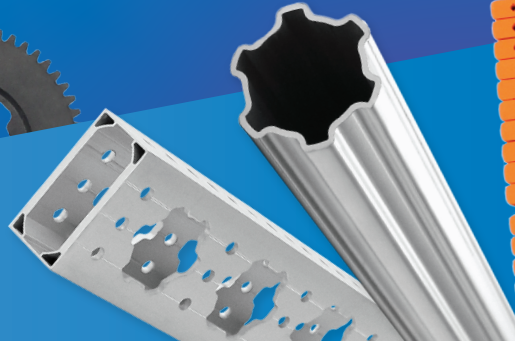
***Receive \$50 towards any product on [www.revrobotics.com](http://www.revrobotics.com)***

Enter the voucher code you received from your FIRSTInspires Account under "coupon code" at checkout. For more information, please visit **[www.revrobotics.com/frc-voucher/](http://www.revrobotics.com/frc-voucher/)**



As proud supporters of the **FIRST® Robotics Competition**, we understand that adapting to game challenges requires rapid iteration. Recognizing that not all teams have access to the same resources, we created REV ION to allow for complex robot designs without large budgets or extensive manufacturing equipment.

REV ION includes 300+ products that work within the existing FRC ecosystem. With basic tools, teams can build affordable, competitive machines, while preserving the ability to infinitely re-configure and iterate on their designs.



Motors, Electronics, Structure, and the entire REV ION Build System available at: [www.revrobotics.com/ION](http://www.revrobotics.com/ION)





Organization Name

Voucher Detail

Expiration Date

Shipping

Access Code

Website

**RoboPromo**

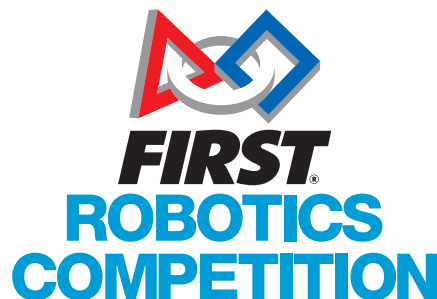
**FIRST® Iron-On Bumper Logos** (set of 8)

**09/01/2024**

**Team Responsibility**

**LOGO24**

**[www.robopromo.com](http://www.robopromo.com)**



**Instructions:**

- Go to **[www.robopromo.com](http://www.robopromo.com)** and enter access code **LOGO24** at checkout (include team number) to receive (1) pack of (8) iron-on logos: 3.75" x 5"
- *Available to FIRST® Robotics Competition Teams only.*
- *Available 01/01/2024 (one order per team)*

**ROBO***PROMO*

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PROMOTING SUCCESS



**Organization Name**

**Voucher Detail**

**Expiration Date**

**Shipping**

**Access Code(s)**

**Website**

**SolidProfessor**

**One Free Individual Annual Membership**

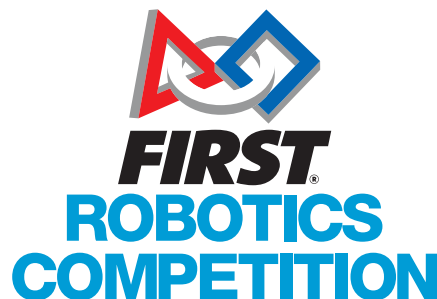
**10/31/2024**

**Included**

**Visit Team Registration Account**

**(Lead Mentor 1 or 2)**

**<https://www.solidprofessor.com/first-robotics-competition-sponsorship/>**



***With this voucher, your team will receive one free individual annual membership to SolidProfessor (\$490 value).***

This membership will give you access to SolidProfessor's comprehensive learning library of over 15,000 video tutorials.

**To access your free membership:**

1. Complete the form on this page:  
**<https://www.solidprofessor.com/first-robotics-competition-sponsorship/>**
2. After submission, you will receive an email from a SolidProfessor team member within 2 weeks with login details.





# 1-Year SolidProfessor Membership

---

Voucher available for *FIRST*® teams  
in the 2024 Virtual Kit of Parts.  
Access online CAD, CAM, BIM, AEC,  
and Manufacturing training today!





**Organization Name**

**Voucher Detail**

**Expiration Date**

**Shipping**

**Access Code(s)**

**Website**

**Tableau**

**One copy of Tableau Desktop**

**08/31/24**

**Included**

**Visit Team Registration Account**

**(Lead Mentor 1 or 2)**

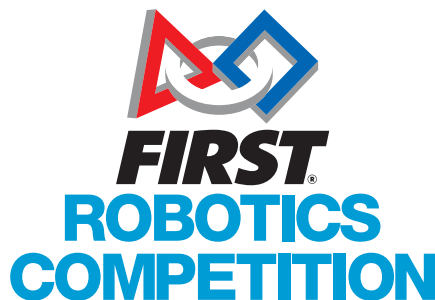
**[www.tableau.com/first-robotics](https://www.tableau.com/first-robotics)**

***(One free copy of Tableau Desktop) Complimentary access to the full professional version of Tableau Desktop for data analysis and visualization, and Tableau Prep for data preparation.***

*Get ahead with Tableau. Visualize your data. Quickly answer questions. Play better defense, pick alliance partners, analyze robot performance, target your fundraising, and reduce inventory waste.*

- Use the product code found in your Lead Mentors' 1 and 2 FIRST® registration accounts for five activations per team.
- Make the most of it with Tableau's free online resources (<https://www.tableau.com/first-robotics>) created specifically for FIRST® Robotics Competition students.

*These access codes are for educational use only. Please do not share your key with anyone outside your team.*





# Place **first** with Tableau

Get ahead of the competition with free access to Tableau Desktop



Discover more exclusive resources at [www.tableau.com/first-robotics](https://www.tableau.com/first-robotics)



**Organization Name**

**TE Connectivity**

**Voucher Detail**

**\$25.00**

**Expiration Date**

**01/31/2028**

**Shipping**

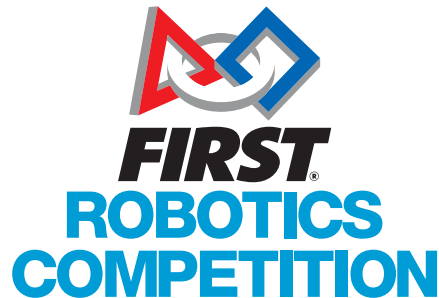
**Included**

**Access Code**

**n/a**

**Website**

**[www.te.com/first](http://www.te.com/first)**



***\$25.00 for FIRST® Robotics Competition Teams  
to receive TE Connectivity products***

**To redeem:** All instructions are available on the on the website, where you can find the product catalog. *FIRST®* teams will use the TE Connectivity sample program to acquire parts. Explore our catalog for suggested and popular pieces!

# TOGETHER, LET'S ENGINEER THE FUTURE.

TE Connectivity has been a proud sponsor of *FIRST*® for over 20 years.

At TE, we believe that every connection has the power to engineer something bigger, and technology brings humanity together.

Learn how TE is engineering a safer, sustainable, productive, and more connected future.

[TE.com/ecc](https://TE.com/ecc)

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**Organization Name**

**Voucher Value**

**Expiration Date**

**Shipping**

**Access Code(s)**

**Website**

**Vulcan Spring & Manufacturing Co.**

**Six Free Springs**

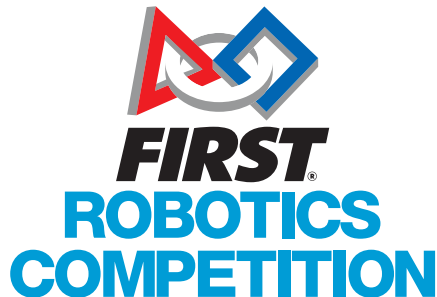
**12/31/2024**

**Included** (U.S. and Canada)

**Visit Team Registration Account**

(Lead Mentor 1 or 2)

**<https://www.vulcancares.com>**



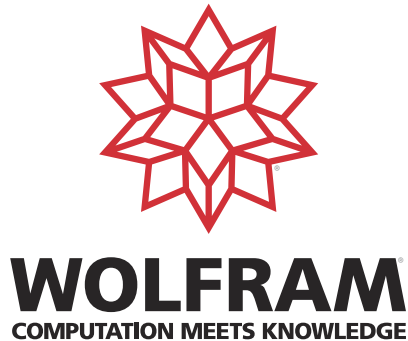
We are offering six constant force springs to each team participating in the competition. Mix and Match any springs from our constant force stock offering. The offer also includes free shipping within the USA and Canada! Orders are limited to 1 per team per year.



Sharing Spring Solutions with  
*FIRST®* Robotics Competition  
Since 2007

Beyond the Spring™ >>>





**Organization Name**

**Wolfram Research**

**Voucher Detail**

**A year of complimentary access to Wolfram|One, Wolfram SystemModeler, and Wolfram|Alpha Pro**

**Expiration Date**

**12/31/2024**

**Shipping**

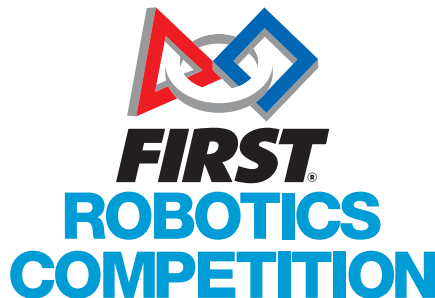
**Included**

**Access Code(s)**

**See below for details**

**Website**

**[www.wolfram.com/firstrobotics/](http://www.wolfram.com/firstrobotics/)**



**To claim your software, visit [www.wolfram.com/firstrobotics](http://www.wolfram.com/firstrobotics)**

**Students:** Please use the program code "**FRCW1SysPro2023STU**" and complete the team name and coach name fields in the form.

**Coaches:** Please use "**FRCW1SysPro2023COACH**" as the program code in the form.

Wolfram resources for *FIRST*® Robotics Competition are non-transferable and may only be used by registered participants of *FIRST* Robotics Competition. This offer expires on December 31, 2024.

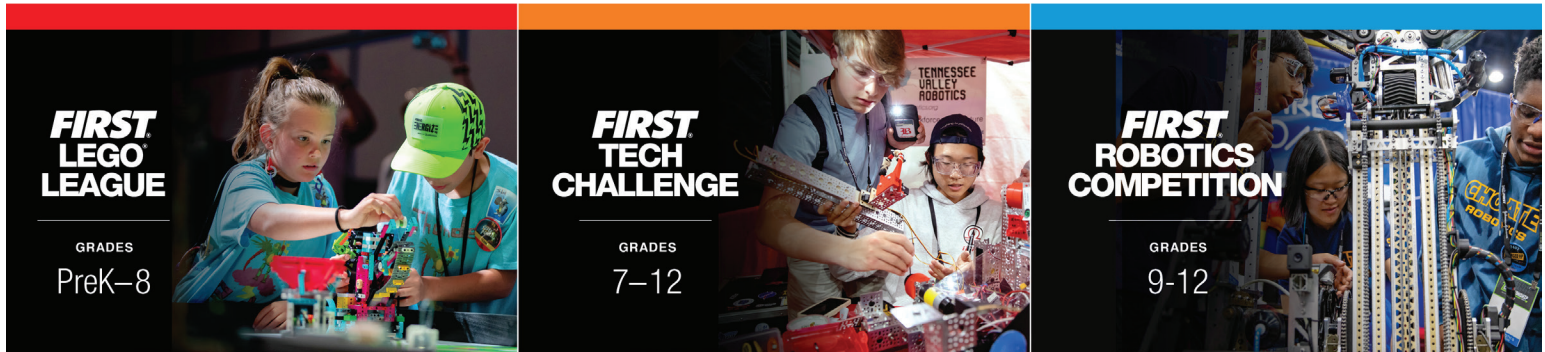


This image shows a single sheet of white paper with horizontal grey ruling lines. In the top-left corner, the word "NOTES" is printed in a bold, green, sans-serif font. In the top-right corner, the hashtag "#CRESCENDO" is printed in a smaller, black, sans-serif font. The rest of the page is blank, showing the continuous pattern of horizontal lines.

[illegible]



**FIRST®** is a global robotics community  
that prepares young people for the future.



[firstinspires.org](http://firstinspires.org)







# FIRST<sup>®</sup> IN SHOW<sup>SM</sup>

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