



**Design & Prototyping Competitions Inspired by** 



**PLUS** The iNSL iRacing T.E.A.M.S. Racing Series

Level UP Your Gaming Program with Esports Design & Prototyping Competitions

Data driven gamers and data-driven non-gamers are invited to compete or showcase in the International STEM League's T.E.A.M.S. Academic Season.

## International STEM League

iNSL.org 501C3 Charitable Organization EIN 45-4064387



T.E.A.M.S. Portal

Technology, communication skills and design thinking help teams practice data driven gaming, prototyping & entrepreneurship.

Add students to your digital classroom and "log in to get hands on."

You'll find easy-to-follow resources for a variety of projects.



### DATA DRIVEN

Did you know that girls who game are 3.3 times more likely to pursue STEM career paths?

The number of schools with accredited Varsity tennis teams is now equal to schools with Esports teams!

180 Schools now offer college scholarships for gaming!



teams have agents, trainers, sponsors & media like pro athletes describes any video game with a competitive platform

includes a mix of individual gamers and team leagues

increases social interaction & graduation rates

leads to college scholarships at more than 100 top schools has an estimated audience of more than 600 million viewers by 2024

girls who played video games are 3.3 times more likely to study STEM\*

is an opportunity to open doors for inclusion & diversity requires a host of 21st century skills including teamwork



### Learn. Design. Compete.



Compete in the points race. Showcase in the Metaverse.

Go head-to-head in the Esports Lounge at NSBE Annual Convention in Atlanta!



#### How does this work?







2. Choose a challenge (3 options).



3. Learn online. Then prototype!



4. Race or game with data.



5. Climb the points leaderboards.



6. Compete at NSBE Finals!



#### Choose I Path (or 2 or 3)



GAMING TOWARD **SYSTEMS ENGINEERING** 

Innovation Challenge
Racing Sim Rigs or
Gaming Peripherals!

**PLUS** 

**iRacing Track Series** 



GAMING TOWARD

DIGITAL PATHWAYS

Data Certificate +
Dashboard Challenge

OR

**Drone Gates Showcase Electronics & Prototyping** 



#### **OPTION 1:**

## INSL IRacing STUDENT INNOVATION CHALLENGE

## SYSTEMS ENGINEERING Design Sim Rigs or Gaming Peripherals

### Create a Tabletop Setup

#### FOCUS ON PERIPHERALS with an Optical Mouse Build



Use cardboard prototyping to design and construct just the tabletop wheel and pedal that will hold your electronics.



Open an optical mouse to reverse engineer the electronics for an excellent lesson on sustainable design.

#### OR... FOCUS ON PERIPHERALS with Arduino and Coding



Follow one of our diagrams or design your own layout using curriculum in the program.



Download software and calibrate your tabletop wheel and pedal setup to steer & stop.

#### or

#### **Develop a Full Sim Rig**



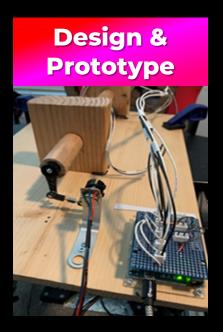


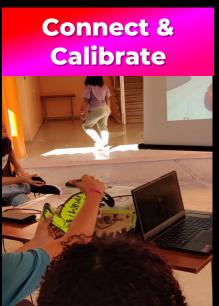




**OPTION 1:** 









iRacing is a PC based simulated racing platform.

- 1. Design & Prototype a Custom Racing Station Tabletop Wheel & Pedal or Full Custom Sim Rig
- 2. Race on Sim Tracks

  Master performance using pre-made wheel-and-pedal.
- 3. Add Graphics & Sponsors to Your Vehicle



#### **OPTION 1: Track Series**









#### ■ Log in to learn and race!

- ✓ Practice anytime on private tracks.
- ✓ Join optional Saturday group practices.

### **□** Earn time attack points anytime.

- ✓ Document data driven performance.
- ✓ Enter your team's top 3 scores!

#### Compete

- ✓ in LIVE streaming events (Feb-Mar)!
- ✓ at NSBE ATL Convention Esport Lounge!

#### **INCLUDES**

- ✓ 12 iRacing Annual Licenses
- ✓ Electronics & Cardboard Prototyping Materials for Wheel & Pedal Set
- ✓ Digital Classrooms
- ✓ Suggested Agendas



#### **Dashboard OPTION 2:** Challenge

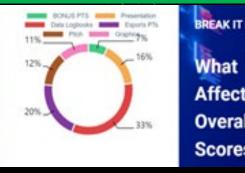
#### Take the Data Analyst Course. Earn a Certificate & Compete!

No coding No kidding.

AI does that part for you.







BREAK IT DOWN Affects Overall Scores?

Learn to love data now, then level up with coding later. Compete for prizes & remote internships with Eisengard AI.

Turn the project created during this course into a showstopper dashboard survey app & COMPETE.

- Earn an industry certificate!
- Join the developers' community!
- Compete for remote internships.
- Apply to become a paid developer!
- Build a college fund!



# OPTION 3: DRONE GATES

#### **Design and Prototype Electronic Drone Gates**



Gates are incorporated into tracks to mark passage and record speeds.

- ✓ Electronics record passage of the drone through each gate.
- ✓ Measure the drone's speed with electronics! (Micro:Bits, Arduino, etc.)

## SHOWCASE Drone Gates at NSBE ATL 2024!

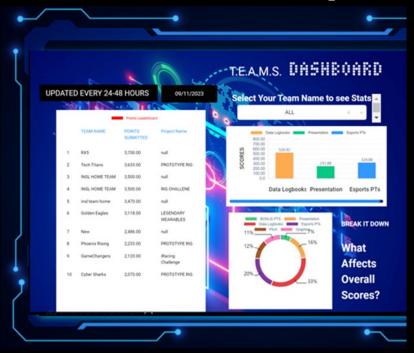
- 1. Lift off & fly through gates.
- 2. Capture data.
- 3. Land safely.
- 4. Earn awards & certificates.

iNSL.org



#### How do you win?

#### All T.E.A.M.S. Competitors Can Earn Points for...



- learning new skills
- graphic design
- presentations
- projects & prototyping
- gaming investigations

**iNSL iRacing Track Competitors Earn points for all of the above PLUS** 

Compete in 5 Live Streamed Races in Feb-March for Prizes, Trophies & Awards

# International STEM League

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Welcome to the NSBE Pre-College T.E.A.M.S. Portal





Take the NSBE Survey to see the Data Analytics Course in Action.

Get Started at

iNSL.org/NSBE