



Who are the **X-Cats**

Who are the **X-Cats**?

The **X-Cats** are the Wilson Magnet High School **robotics** team

We've been around since **1992**

We are part of **FIRST** Robotics

www.x-cats.org

What is **FIRST**?

Founded in **1992**

International organization conducts annual **robotics** competitions

For **I**nspiration and **R**ecognition of
Science and **T**echnology

www.usfirst.org

Dean Kamen



Engineering

What are engineers?

Engineers are people who solve problems.

Who can be an engineer?

Anyone with a willingness to learn and a willingness to put the work in.

Why consider engineering?

Creativity, fun, challenging, rewarding, desire to change the world!

Where are examples of engineering?

All around us from our phones, to our cars, to our houses, to our water bottles.

Ask yourself:

- Do puzzles and mysteries intrigue me?
- Am I pretty good at math and science?
- Does a high paying job with weekends off and ample vacation days appeal to me?

What are the different types of engineers?

Civil Engineers:
Design and construct buildings, bridges, and roads.



Mechanical Engineers
Design and build mechanical devices including engines, printers, robots.



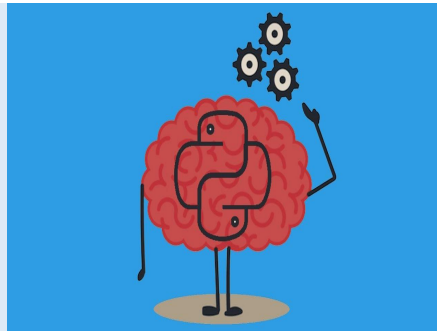
Electrical Engineers:
Design and develop electrical equipment including computers, robots, and lights.



Chemical Engineers: Apply the principles of chemistry and other sciences to improve lives.



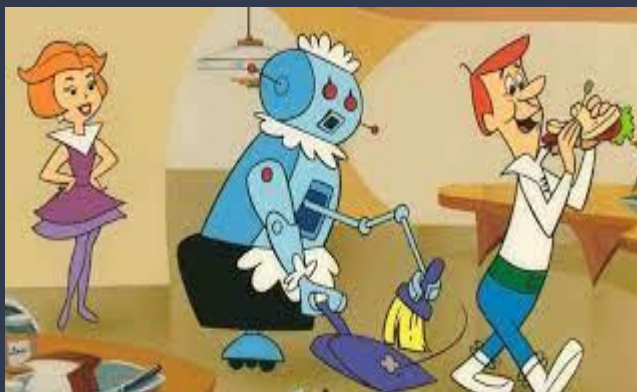
Software Engineers: Design and create software for computers and applications.



Systems Engineers:
Ensure that all systems and teams in an organization work well together.



1962



2022



Get ready for the future, or get left behind.

Reuters
Detroit, Michigan, United States
September 15, 2022



 The world's **first flying bike** made its **US debut** at the Detroit Auto Show



FOLLOW
US

Who are the **X-Cats**?

Wilson students working with engineers from **Xerox, Lockheed Martin, Harris RF** and elsewhere

Meet at a shop at **Edison** Tech

Meetings usually **Wednesday** evening and **Saturday**. Optional Monday evening.

X-Cats

Open to **all** Wilson students

Time commitment

Mid-Oct to Mid-Dec	Pre-season meetings Wednesdays 5-7:30
Jan - Mar	Build robot Wednesdays 5-7:30 Saturdays 9-3 Optional Workdays (Monday eve, etc)
Mid-March	Regional Competition RIT
Late March	Travel to 2nd Regional

X-Cat Benefits

Working with a **team**

Working with your **hands**

Developing problem-solving **skills**

Learn about **careers** in engineering,
science and technology

Testimonial

Sent: Tuesday, October 1, 2019 2:48 PM
To: Dixon, DaTwan <Datwan.Dixon@xerox.com>
Subject: UR NSBE & X-CATS Collaboration

Good Afternoon DaTwan,
How are things going lately? My name is [REDACTED]. You might remember me as a former X-CATS Team 191 member of the 2015-16 season. Currently, I am on the executive board of the National Society of Black Engineers at the University of Rochester and I'm wondering if there are any opportunities for NSBE to volunteer or have a collaboration in the near future with the X-CATS? Thank you so much for your time and hope to hear from you soon!

Sincerely,

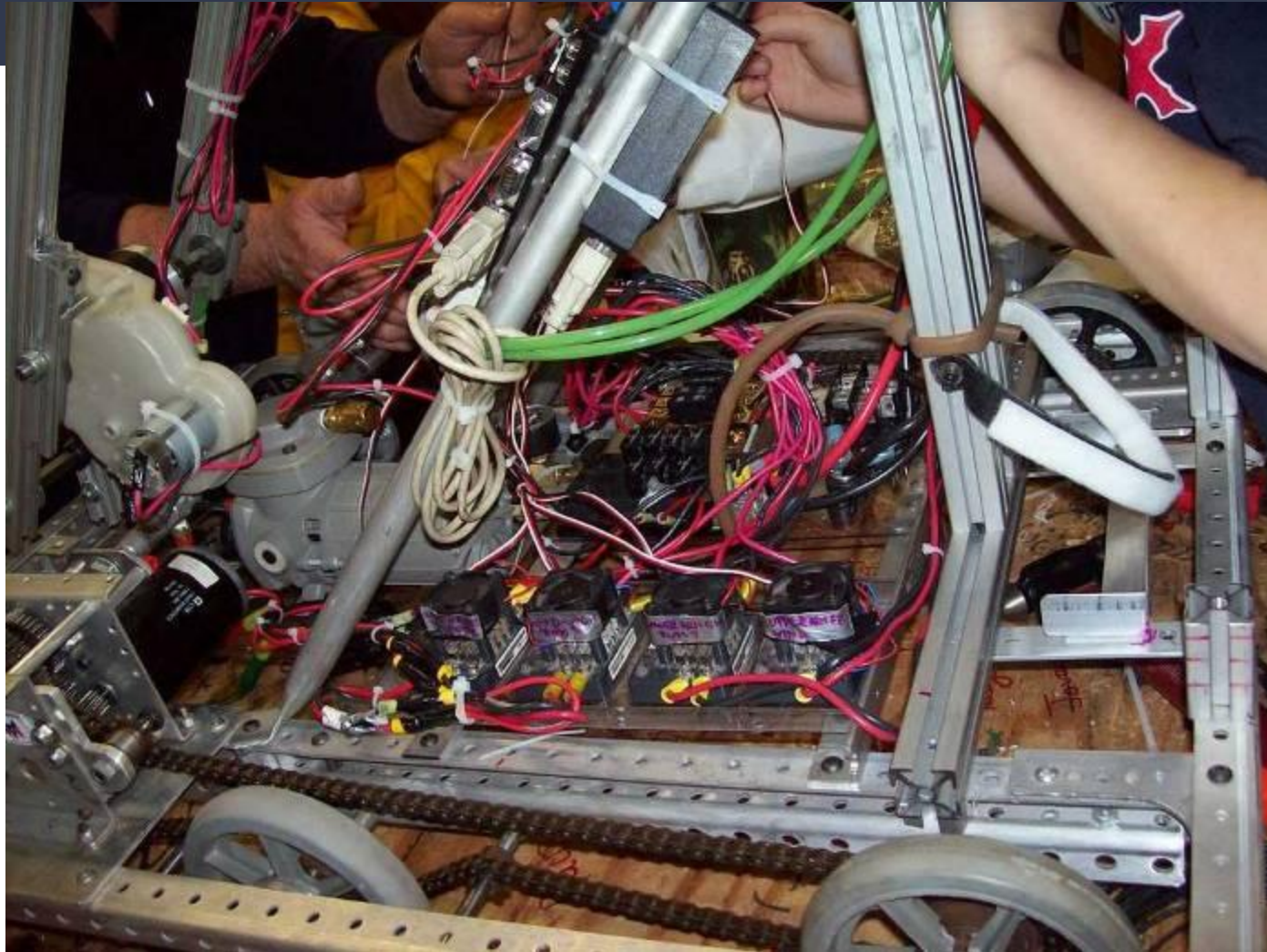
[REDACTED]
University of Rochester Class of 2022
NSBE Community Outreach Chair 2019-20
NSBE First Year Representative 2018-19
Kearns Scholar 2019

Hear from the students!

Hands-On



Engineering



Mentors



Student Expectations

Attend all **meetings**

Casual

Junior Varsity

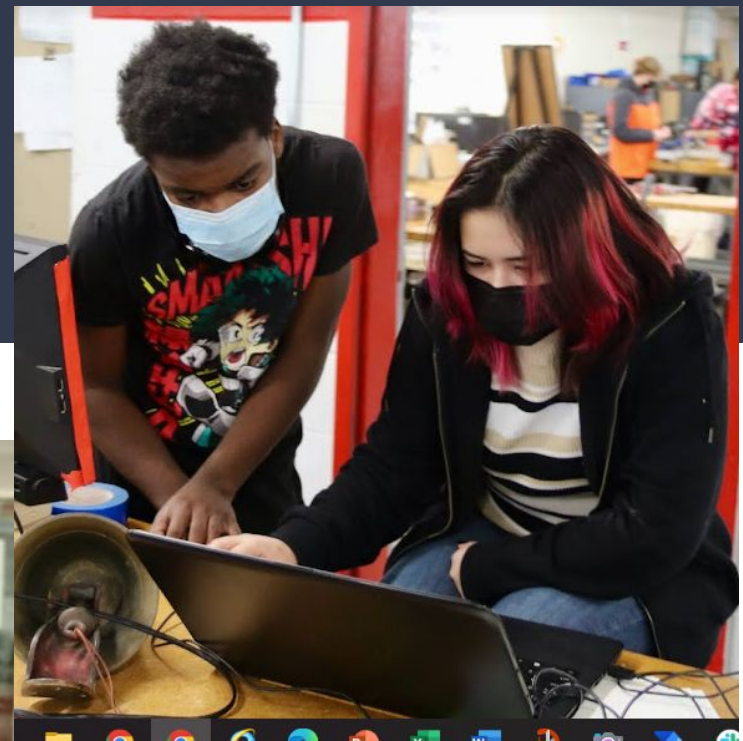
Varsity

Participate in community **service**

Prepare a **presentation**

Participate in **fundraisers**

Meetings





Fun



Travel for Competition



Competition



Success!

2022 Buckeye Regional

- Number 4 Seed
- Regional Semi-finalists



Join us



**RaChaCha
Ruckus**

Saturday
October 22nd

**Rochester
Armory**
900 E Main St



One more benefit

**\$80 million in
scholarships**

Join X-Cats!

Complete the **application**

One-on-one **interview (not this year)**

First meeting: **October 27th, 2021**

Go X-Cats!



https://www.youtube.com/watch?time_continue=11&v=dtT9oOCrBKE