

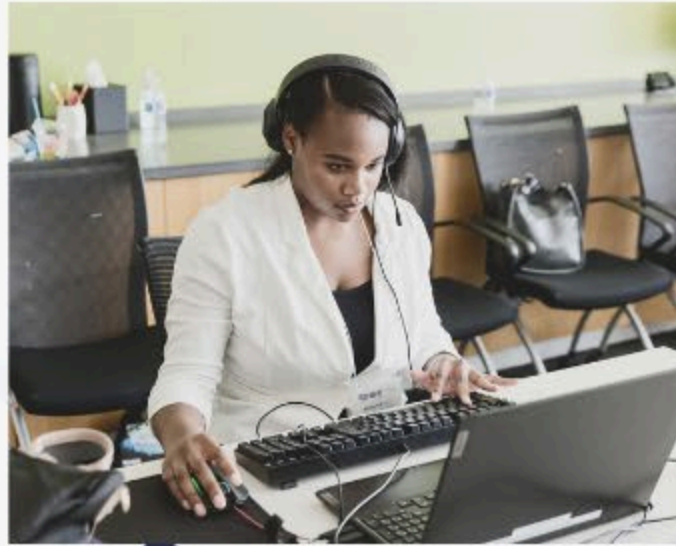
A young woman with long dark hair, wearing a purple hoodie, is focused on assembling a small black drone. She is in a workshop or classroom setting, with various tools and electronic components visible on the table. The background is slightly blurred, showing other people and equipment. The overall lighting is soft and focused on her work.

spark

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Igniting Futures
in Tech

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Imagine a future

Where every
North Carolina student
has the skills needed to thrive in a world
transformed by technology.

Our Why

Too few of our NC students **know about high-tech jobs** that will dominate the future job market in our state and local communities.

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Our Why

Even fewer
see pathways
for themselves in
these jobs.



**AND, OUR TRADITIONAL PRACTICES
IN HIGH SCHOOLS DO NOT ENGAGE
ALL OF OUR LEARNERS.**



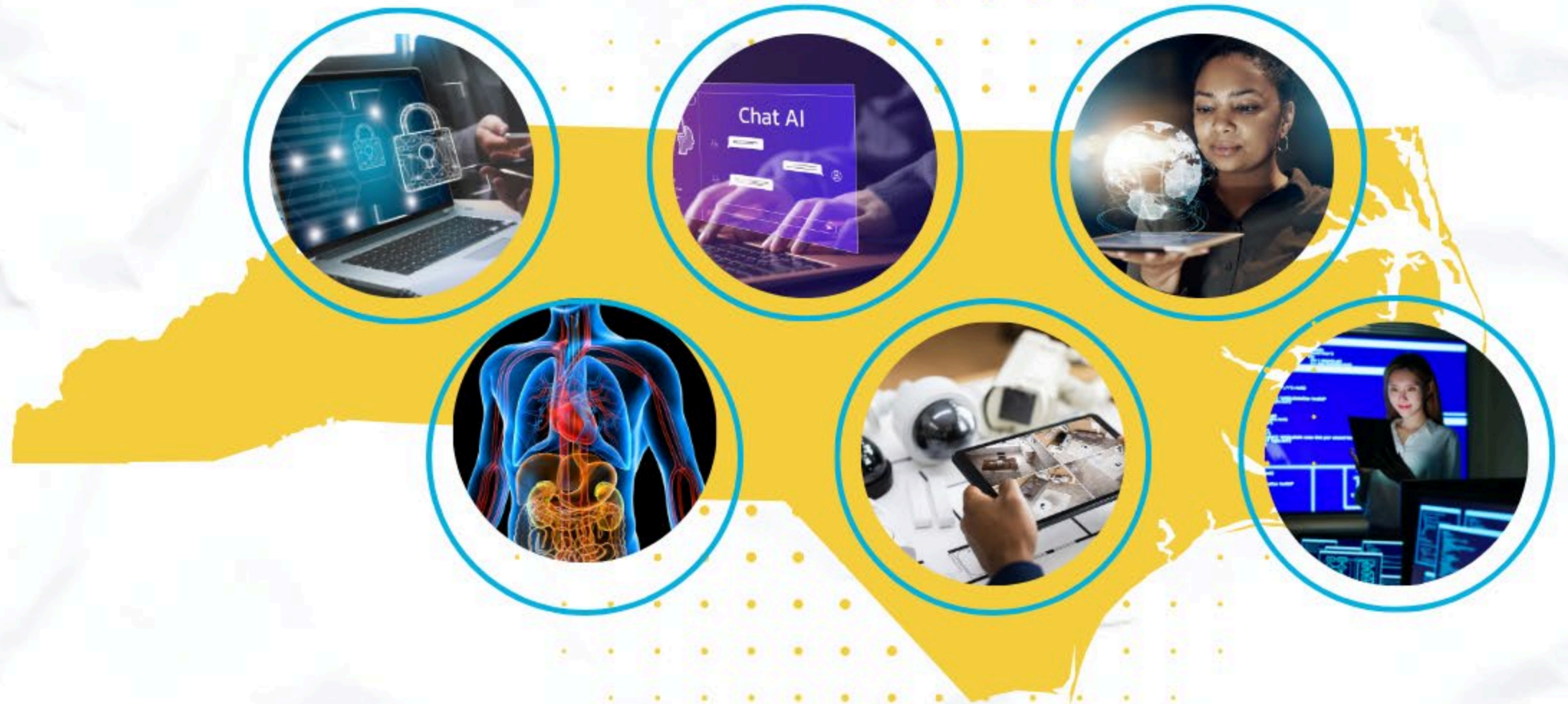
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SparkNC is a Completely

***New Way* to Do School**

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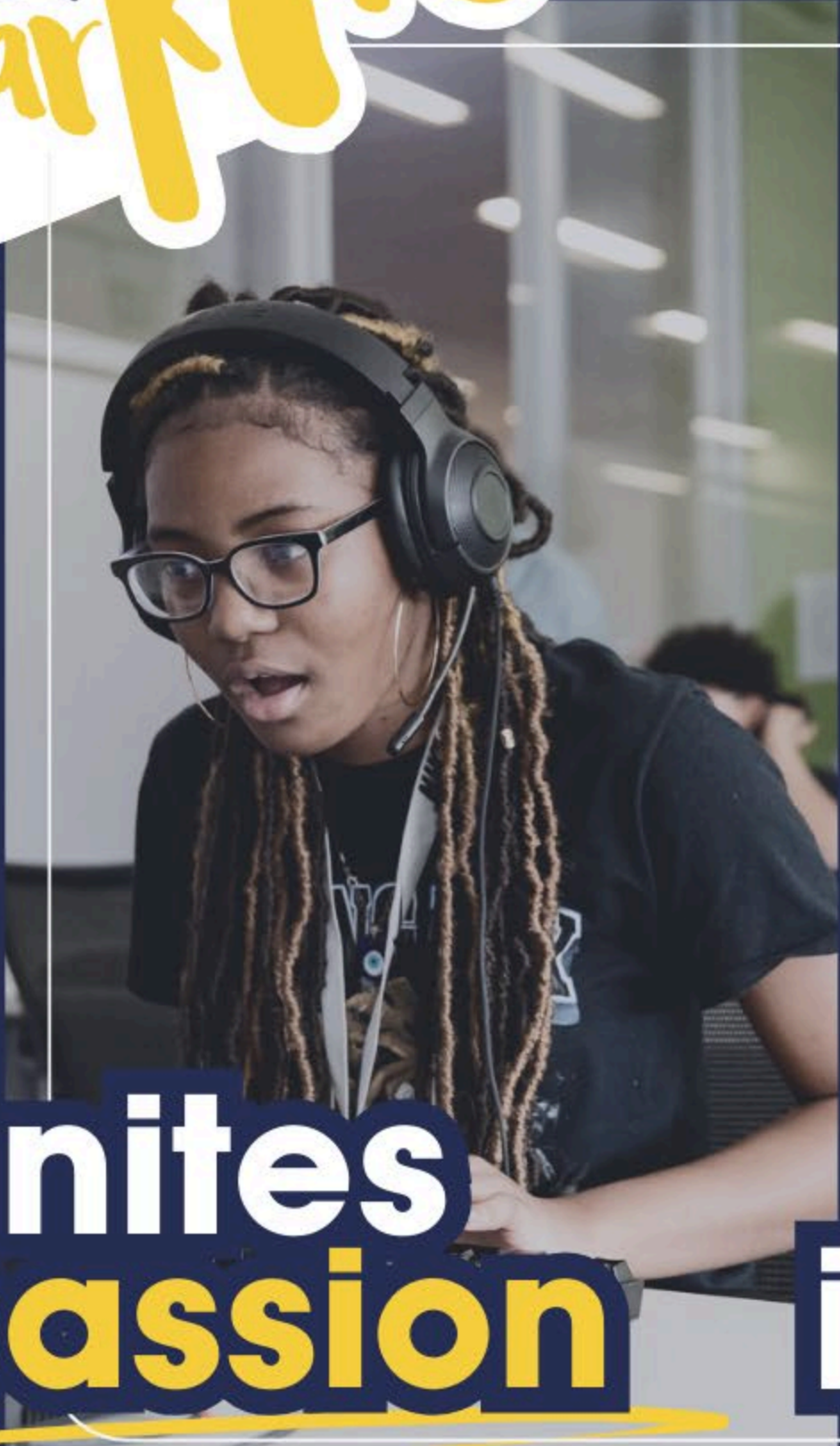
**OUR NC TECH
BUSINESSES
STRUGGLE TO
FILL THE
GROWING
DEMANDS
FOR A SKILLED
WORKFORCE.**



**SPARKNC
EMPOWERS
STUDENTS TO
EXPLORE
HIGH-TECH
FIELDS**



SparkNC



**Ignites
passion**

in students

**to learn
more**

AND

**provide employers
with a dynamic**



**homegrown
talent pipeline**

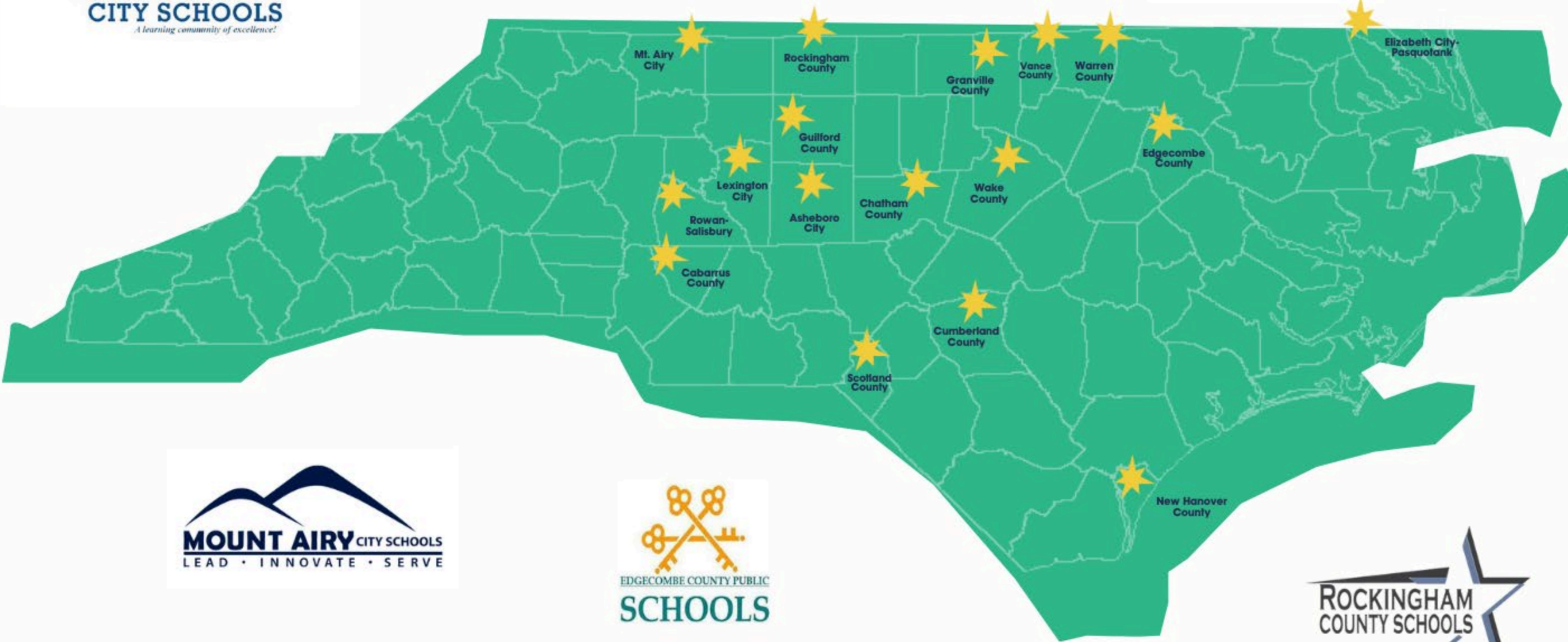
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Principal

Edith Sköpper







Learner-Centered

- Learning experiences that ignite their passions
- Choose what, where, and how they learn
- Complete stackable units instead of semester- or year-long courses
- Move at their own pace



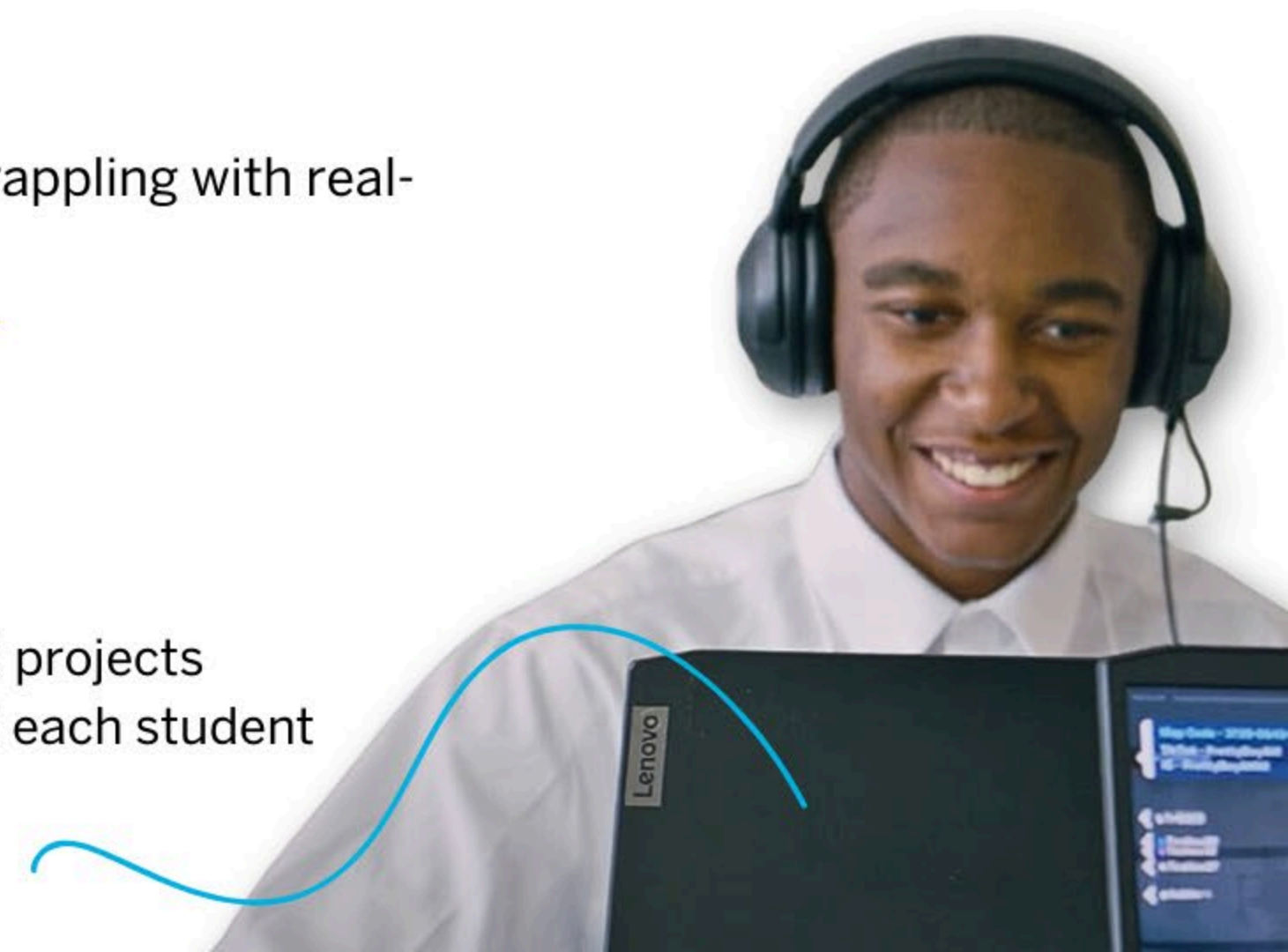
Industry-Relevant

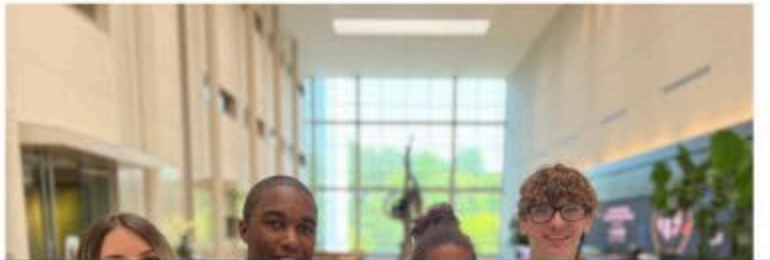
- Students grow their professional networks
- build the durable skills employers value
- Engage in problem-based learning
- Create strong portfolios of relevant work
- Developing relationships with employers and grappling with real-world challenges



Competency-Based

- Demonstrate mastery of unit content
- Receive credit by completing practical, real-world projects
- Empower expert educators to advise and support each student
- Personalized path to success





Lap Leaders



Our Spark Labs



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Platform

Personalized Digital
Portfolio of Work

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spark NC

Coach

Social media has also helped to build a **community around esports**, where fans and players can **connect, share information and strategies, and support each other**.

In addition, social media has given **rise to esports influencers** and content creators, who can build a following and monetize their content through sponsorships, advertising, and merchandise sales.

Autoplay Off

ROUND 1: HISTORY OF ESPORTS

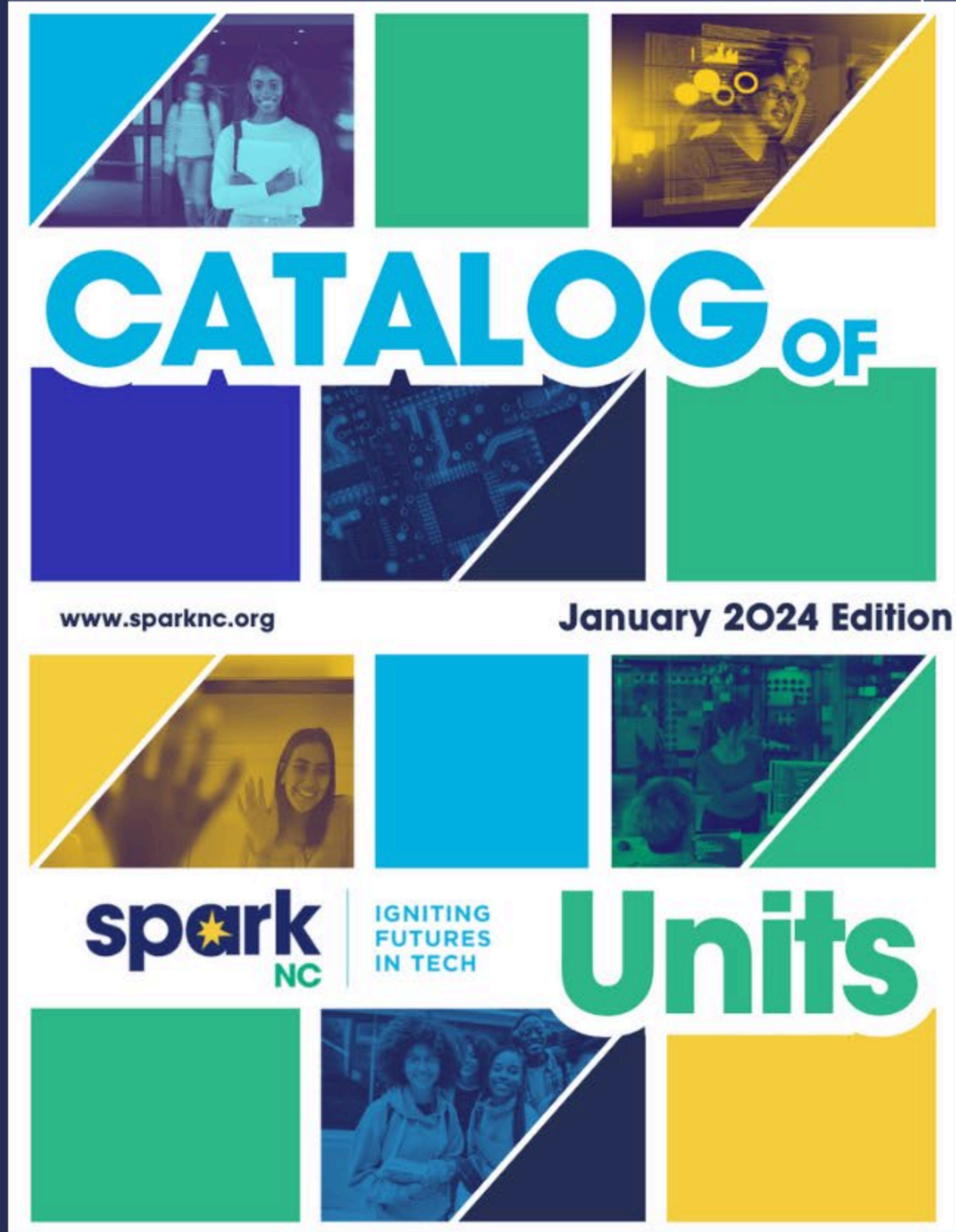
PREVIOUS 1 2 3

SAVE DRAFT NEXT

Morgan Spark NC

Unit Plan

- Introduction
- 1970s-1980s: The Rise of Arcades
- Optional: Blast from the Past
- Check Point #1
- 1980s: Gaming Goes Home: Console Invasion
- 1990s: The Rise of LAN Parties
- Check Point #2
- 2000s: The Emergence of Esports as a Professional Industry
- Check Point #3
- Diversity and Inclusion in Esports History
- Charting the Esports Time Warp: A Journey of Milestones and Future Prospects
- Good Gaming Checkpoint: Gameplay Safety and Security
- Round 1 Complete!



**Artificial
Intelligence**



**Computer
Systems
Engineering**



**Game
Development &
Design**



Design UX/UI



**Exploring Tech
Fields**



**Software
Development**



Cybersecurity



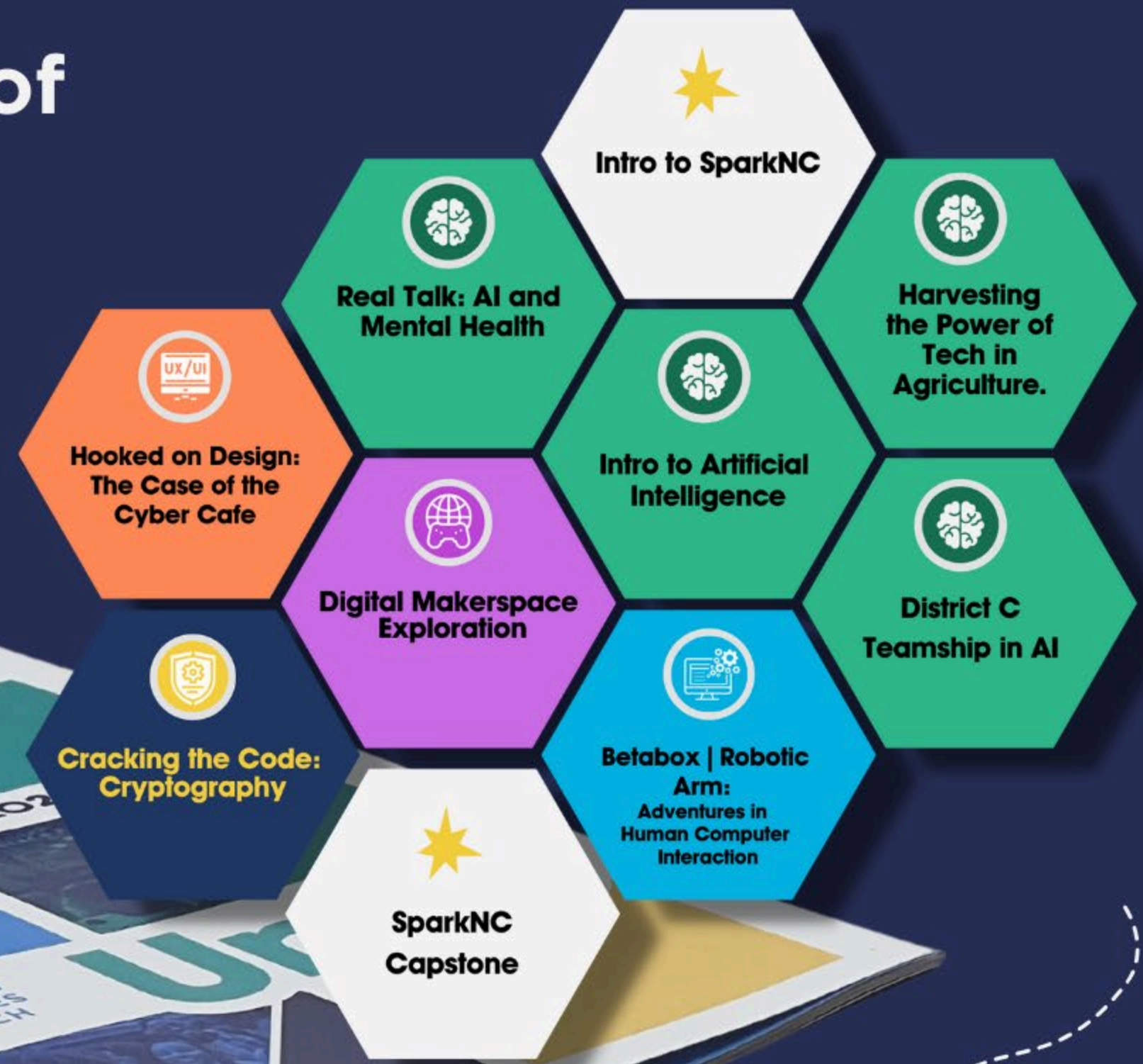
**Data
Analytics**

Categories of Units

 **Live**
Interdistrict Units

 **Experiential**
Units

 **On-Demand**
Units



modular,
stackable units

Categories of Units



Live
Interdistrict Units



Who Wants to Be A Millionaire



Experiential
Units



Teamship Prep



On-Demand
Units

**CRACKING
THE CODE**
CRYPTOGRAPHY CHALLENGE



Intro to Cybersecurity



Please Join Us For

spark
NC

DEMO
Day

2024

Showcasing
Student Innovation

JOIN US AS WE HIGHLIGHT THE INNOVATIVE LEARNING
AND WORK PRODUCTS OF STUDENTS IN SPARKNC

Edgecombe

SouthWest High SparkLab
5912 N. C. 43 North, Pinetops, NC
THURSDAY, MAR 14TH
1PM-2PM

Mt. Airy City

Mt. Airy High SparkLab
1011 N. South Street, Mount Airy, NC
TUESDAY, MAR 19TH
4:30PM-5:30PM

Lexington City

Lexington Senior High SparkLab
26 Penry St, Lexington, NC
THURSDAY, MAR 21ST
5PM-6PM

Rowan-Salisbury

South Rowan SparkLab
1655 Patterson Street, China Grove, NC
WEDNESDAY, MAR 27TH
9:15AM-10:15AM

Capstone

Embedded with
reflections on
durable skills



Experiences





**SparkNC
Video**

spark
NC



Shawn Stover
Superintendent

Student Voices



Brittany Branch
Spark Lab Leader
Mount Airy City Schools

KAYLA- 9th Grade
NEW HANOVER COUNTY
SCHOOLS



“Spark is a **great support system** for **creativity and independence.**”



Business Advisory Council



Allen Mask

Managing Partner



Jennifer Bell

Director of Educational Partnerships



Dexter Robinson

Leader,
Early-in-Career Talent



Adam Garry

Artificial Intelligence
Consultant



Sujatha (Suj) Perepa

Distinguished Engineer



Jena Collins

Manager, Strategic Initiatives



Kate Groat

Director of Corporate
Philanthropy



Steve Isaacs

Education Program
Manager



Spark Teamship



“I have had an amazing experience with SparkNC! I have learned and grown so much in my leadership skills and can’t wait to continue my journey with them and the people I’ve met along the way!”

**- Spark Teamship Student
Cumberland County Schools**



Callie Edwards

**Director of Program Evaluation and
Education Research**

NC STATE

Friday Institute
for Educational Innovation

SparkNC Evaluation



**Evaluation
Design**



**Preliminary
Findings**



**Current Data
Efforts**



**Future
Reports**

SparkNC

Reports, program documentation, learning materials, attendance records & completion records

Partners

Program documentation, attendance records & artifacts from activities/events

NC
Administrative

Student records & staff records

PSU

Records, documentation, funding, artifacts & student surveys and assessments

Evaluator
supplemental

Interviews, focus groups, surveys & observations

Data Sources





Evaluation Design

Implementation

1. Progress of SparkNC programs and partnerships
2. Factors that support vs impede successful implementation
3. Potential modifications to ensure program impact

Impact

1. Engagement of **district leaders** with student pathways for high-tech careers
2. Capacity growth of **educators** to support preparation for high-tech careers
3. Improved **student** agency over learning and entry in high-tech careers



Preliminary Findings

“... it may indeed prove to be an educational model for the next generation of schools.

**- Dr. Stan Winborne,
Superintendent Granville County
Schools**

SparkNC Planning Year - Initial Summary Report

SparkNC aims to help students explore high-tech career fields and prepare them for modern work. The Friday Institute's Program Evaluation and Education Research (PEER) Group has developed a comprehensive and responsive evaluation plan for this work focused on programmatic strategies, intended outcomes, and measures for assessing program impact. While evaluation data will not be available until the 2023-24 school year, and a definitive assessment of program impact will require the program to mature.

What we found in Year 1:

- Planning efforts on track for program implementation in 2023-24 school year
- District buy-in and inter-district network positioned SparkNC for successful implementation
- Co-design process engaged and empowered educators to envision new model for teaching and learning

Advisory Council, consisting of tech and industry leaders, to elicit advice and feedback on best practices for work-based learning opportunities. Additionally, SparkNC provides students, parents, and guidance counselors assistance in navigating from SparkNC program offerings to industry-recognized certifications through its Credential Maps.



Current Data Efforts

School district data management

- Data sharing website (Jan 2024)
- District communications to initiate data requests (Jan – Feb 2024)

Survey data

- District Leads (Nov 2023- Jan 2024)
- SparkLab Leaders (Feb 2024)

SparkLab site visits

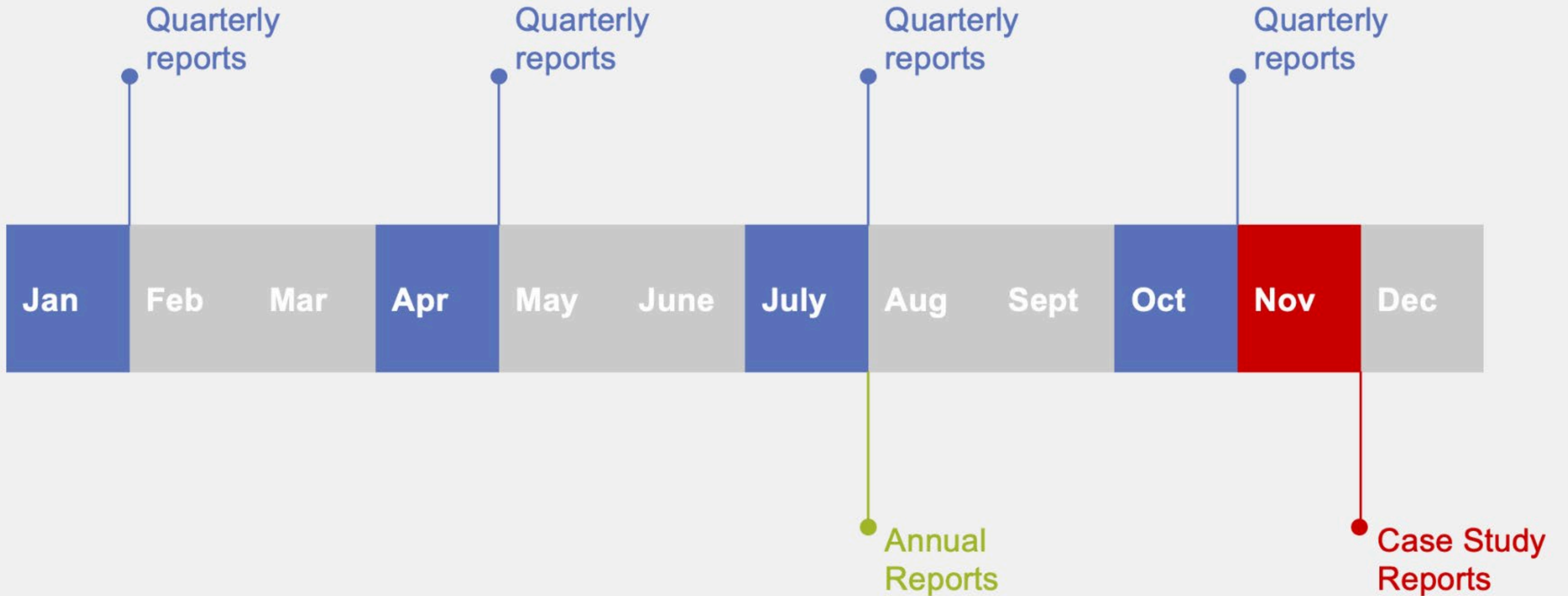
- Rowan/Salisbury & Mt Airy interviews and observations (Feb – Mar 2024)
- Additional labs currently being planned (Mar – May 2024)

Ethnography data collection

- SparkNC Senior Director interview (Feb 2024)
- Additional interviews being planned with SparkNC staff (Mar – May 2024)



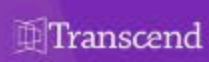
Future Reporting





Announcing the
TOP 10 FINALISTS
for the Education
Innovation Showcase

Powered by



NC STATE

College of Education
Friday Institute
for Educational Innovation

fi.ncsu.edu

“

**“I wish we
had this
when I was
in school.”**

”

Our Sustainability and Growth Plan



Our Goal

To **SCALE** our efforts so that **every** student in NC has access to SparkNC.

To meet the request for communities who are **asking** to bring SparkNC to their students.



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State Funding

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supports SparkNC's
core operations and
start-up costs
for launch



State Policy Flexibility

for these **promising practices**

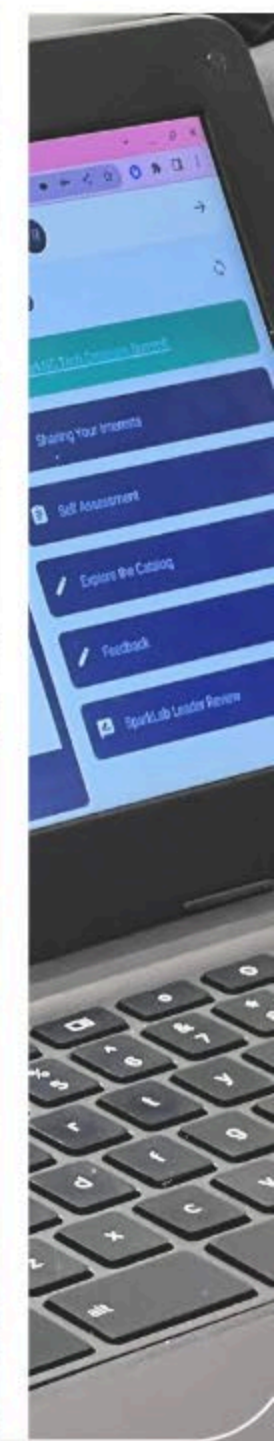
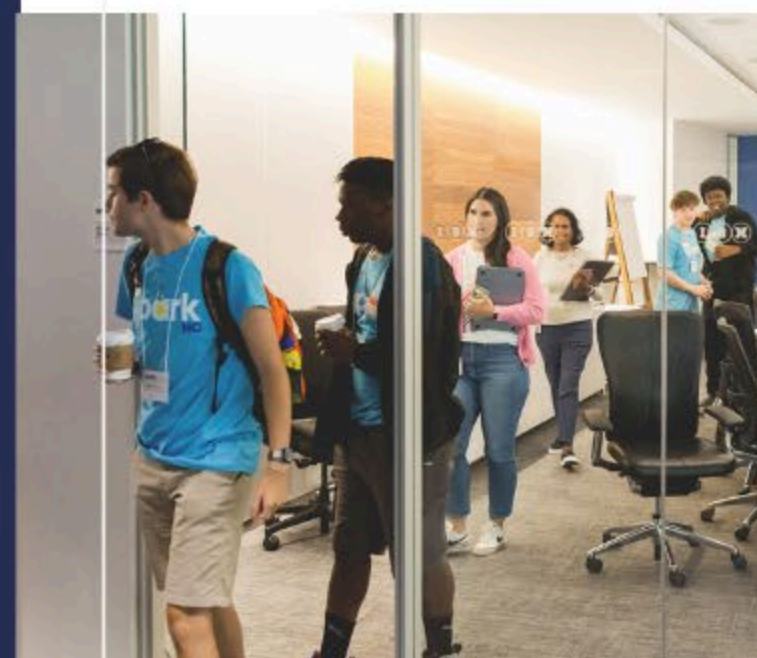
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Local Funding

sustains key aspects
of the SparkNC
initiative over time

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Partner Funding

from **philanthropy and corporations** supports new designs and experiences for students

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Potential Funding



Our Commitment

to NC employers

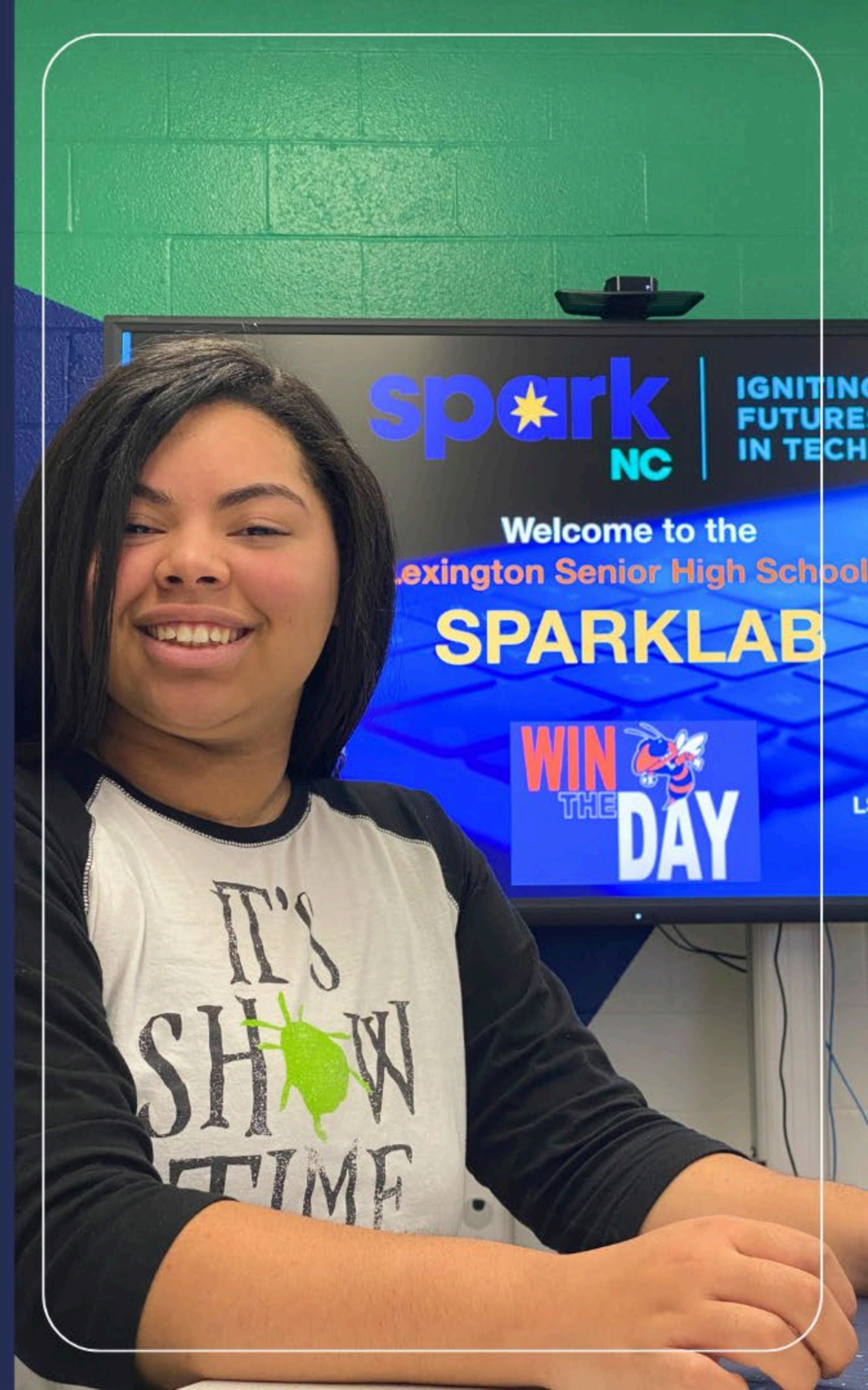
We will provide
a homegrown talent pipeline
with students
who have the skills to thrive in
technology-infused careers.



Our Commitment

to NC students

We will provide engaging learning opportunities that are **industry-relevant**, connected to **high-tech professional networks**, and edifies **durable skills**.



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IGNITING
FUTURES
IN TECH

questions?

