ADVANCED MANUFACTURING THROUGH ROBOTICS

Preparing Kentucky Students for Tomorrow's Manufacturing Economy

KENTUCKY'S MANUFACTURING REALITY

- 250,000+ Kentuckian's work in manufacturing (~13% of workforce)
- More than 800 manufacturing projects announced in the last 5 years which will add 37,000+ jobs
- Major employers here who have told us they want our students - Toyota, UPS, Novelis, DoD, and others

ROBOTICS

Real Workforce Skills

- Computer Aided (CAD) Design
- Additive Manufacturing
- Subtractive Manufacturing
- Microcontroller Programming
- Build & Maintenance
- Teamwork & Project Management
- Power distribution & Wiring
- Innovate

FROM ROBOTICS TO REAL WORLD ACHIEVEMENTS

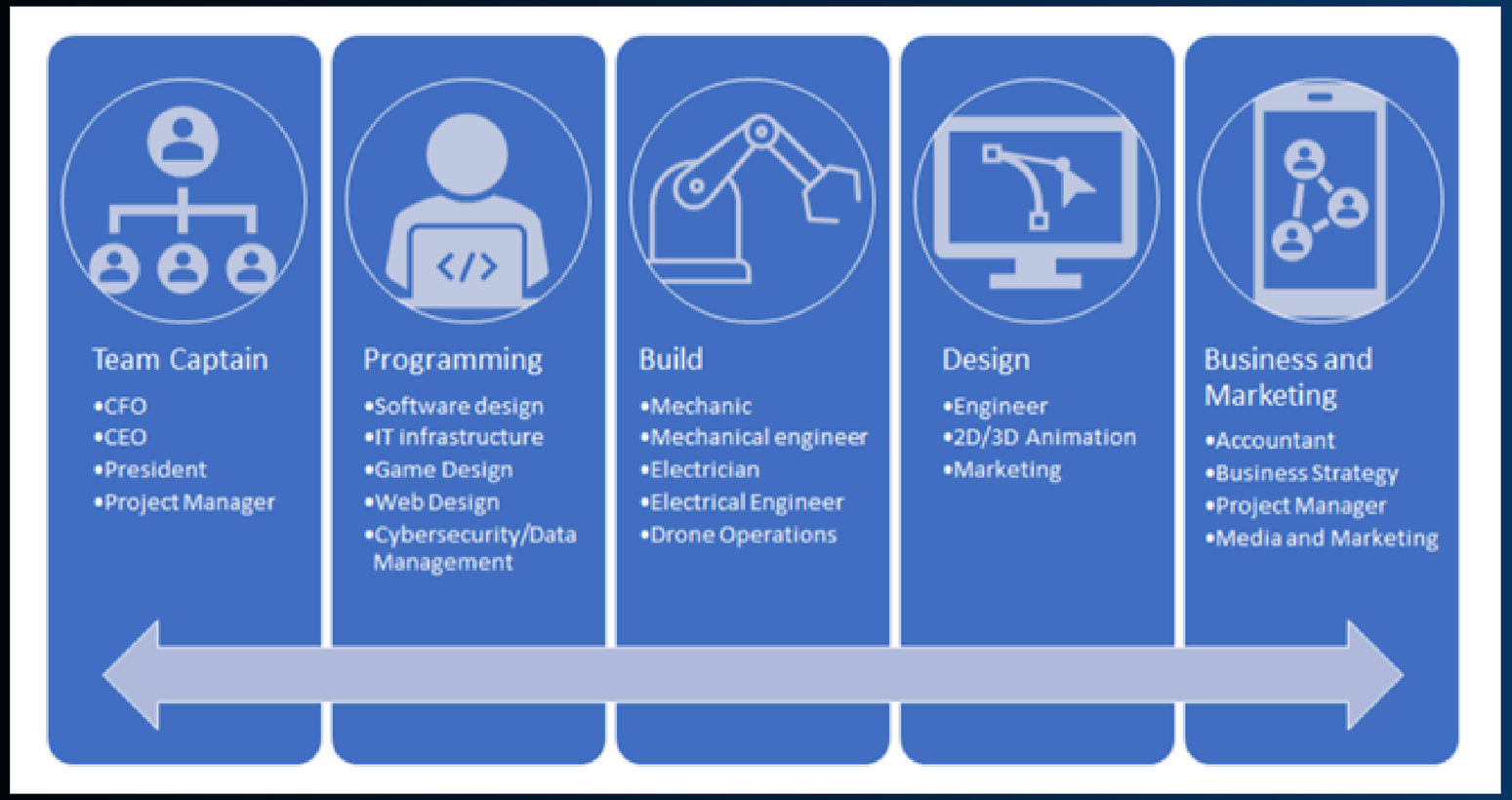
FIRST **Students go on to do great things**

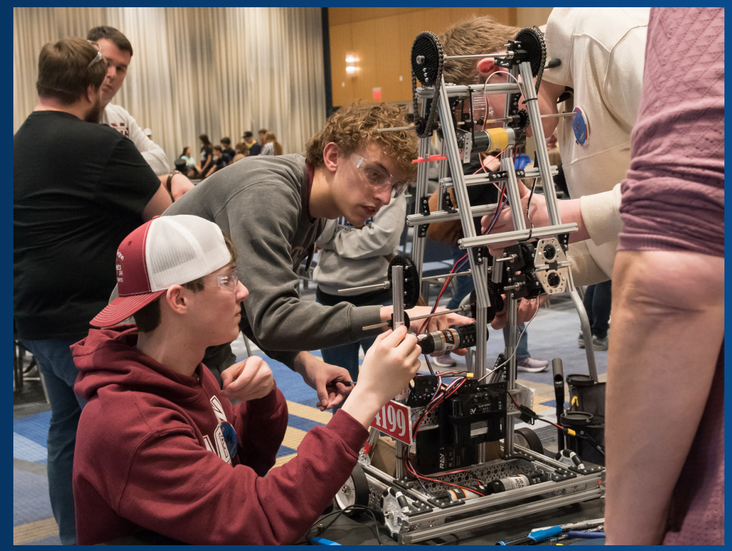
Example: From sketch to global stage

Alumni of our program designed and built the interactive scoring system now used at WWE events worldwide.

Not only building a skilled workforce, but Kentucky's future innovators.

INDUSTRY CERTIFICATIONS & CREDIT FOR PRIOR LEARNING



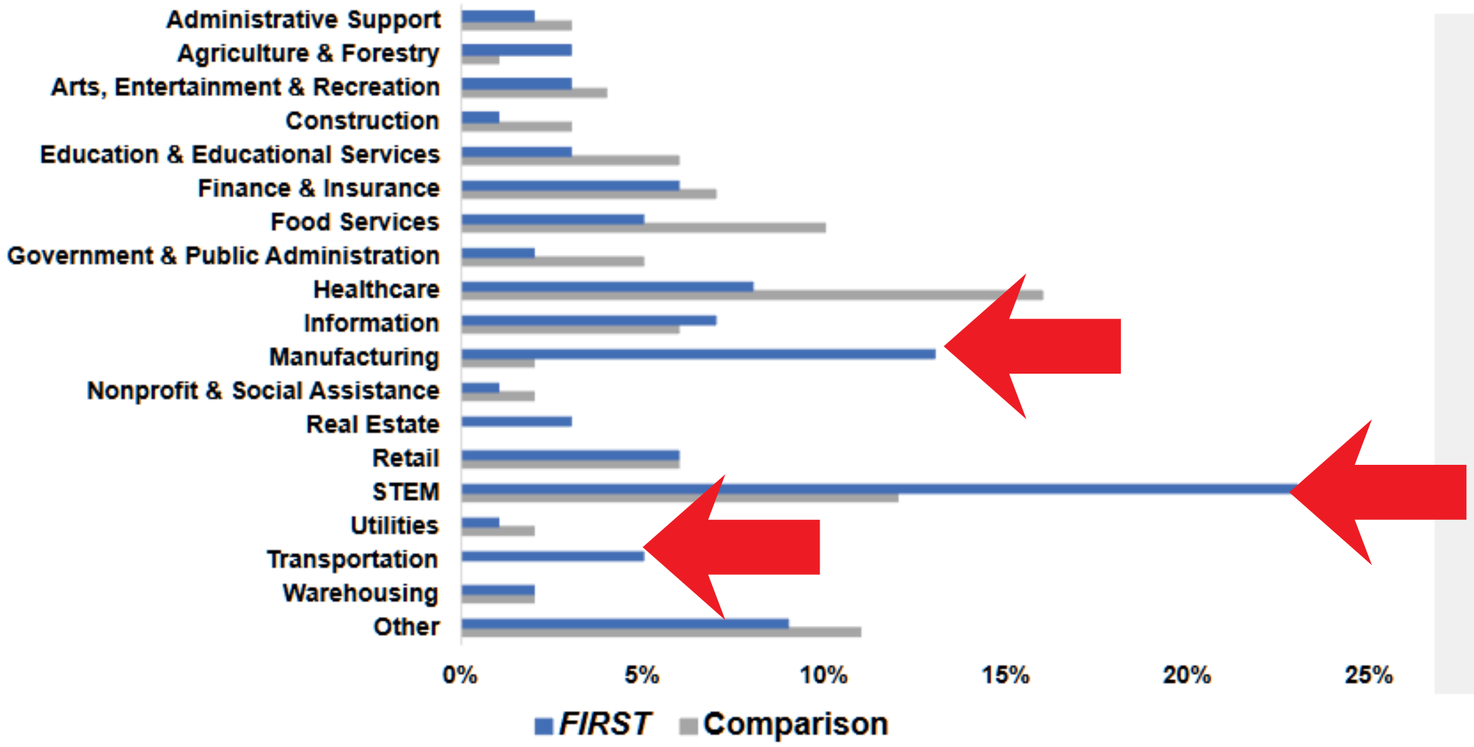


Examples: Mastercam, Autodesk, OnShape, Solidworks, MATLAB, FESTO NC3, Labview, Etc. Currently working with Amtec.

EMPOYMENT INDUSTRIES

FIRST Graduates

FIRST **alumni are more likely to be employed in manufacturing and STEM fields than the comparison group**



*Job titles are self-identified via participant survey responses.

"Because of *FIRST* I was able to see how an engineer would work with different people. I also learned how to build and design. If it wasn't for *FIRST,* I probably wouldn't have picked engineering as a career path."

WHY THIS LEGISLATION IS TIMELY, NECESSARY, AND WORTH INVESTING IN.

- Jobs are here now
- Proven Model: Michigan
- Strong Momentum: Indiana
- Untapped potential: Kentucky

Sport for the Mind, where everyone can go pro!