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Details Make All The Difference Module

In the Details Make All The Difference Module, students will be introduced and begin to explore the amazing world of Advanced Manufacturing. They'll learn about: Industry 4.0 technologies, engineering design, the digital thread, and precision measurement. After completing all the activities in this module, students will be challenged to innovate and create a component that increases the functionality or value of an existing product used by someone in their community. This module is designed to launch students on an Advanced Manufacturing Career Pathway and begin to equip them with the knowledge and skills needed to earn a Certified Production Technician (CPT) Certification.

Time Requirements: approximately 4 weeks

Audience: 9-12th grade courses: science, math, Pre-Engineering, Manufacturing, Engineering Design, Robotics

Opportunities for local businesses and organizations to be featured in the module:

- **Imagery:** We would include images of sensors in action in your company.
 - **Media:** We welcome short video clips that might show aspects of your production area.
 - **STEM Role Models:** Let us know if you have someone who you think might be featured in our STEM Champion Video for Details Make All the Difference. We'll take care of the details, you bring the excitement and expertise.
 - **Site Visits:** Let us know if you might be open to having educators tour your facility.
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