



The Digital Manufacturing Institute

# MxD Final Report Project 20-01-01

MxD Curriculum Program Review
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## I. EXECUTIVE SUMMARY

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Following the launch of year one of the IGNITE high school curriculum program at Waukegan High School, MxD requested funds to collaborate with an education consulting organization to evaluate the programs strengths and weaknesses. MxD aspires to expand the IGNITE program with other interested high schools, but wanted to complete an independent evaluation of the program prior to its expansion.

After engaging with several educational consulting organizations nationally, the decision was made to work with RYE consulting. RYE consulting employees are all former teachers and educators, which gave them a strong perspective for which to evaluate the high school curriculum. Additionally, at the time (pre-Covid) it was seen as beneficial that RYE was located in Chicago and that RYE staff would be able to visit Waukegan High School.

The goals for the evaluation were to evaluate the curriculum, as well as identify what makes high school programming successful. However, shortly after the contract was awarded everything in Chicago (and nationally) shutdown due to Covid. As a result the RYE staff were unable to visit the high school (which was also shutdown and moving to remote learning). The timing posed significant challenges because the project had to be completed by May, and the faculty at Waukegan High School were busy pivoting to remote learning and did not have much time to engage with RYE staff.

Due to the constraints from Covid, we were able to work with RYE to expand the scope of the project (at no additional cost) to not only evaluate what successful high school curriculum programs look like, but to identify regions across the US that are uniquely situated for advanced manufacturing high schools programs (like IGNITE).

The final result of the project is a report that identifies:

- Sample lesson plans and templates (based on feedback from Waukegan faculty)
- Research on credentials and certifications
- Target regions
- Market analysis
- Conference mapping (for program amplification)
- Resource support
- Case study
- Implementation guide & industry partnerships



## II. PROJECT DELIVERABLES

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*The following list includes all deliverables created through this project. These deliverables will be referenced throughout this final report and can be accessed on the membership portal in accordance with the rights defined in the Membership Agreement.*

#	Deliverable Name	Description	Deliverable Type
1	Final Report	A report with information on the above agreed upon sections	Presentation + Report
2			
3			
4			
5			
6			
7			
8			
9			