

MANGO School: Manufacturing a New Generation of Opportunity

Presented by Dr. Martin Luther King Jr. Early College Students

At MANGO School, we are designing a future where students don't just learn, but prepare to create, innovate, and transform industries. "M.A.N.G.O," which stands for Manufacturing a New Generation of Opportunity, encapsulates our mission to equip students with the tools they need to succeed in manufacturing, engineering, technology, and more. This vision, shaped by input from students and their aspirations, aims to redefine the learning experience and provide a pathway to careers that will change the world.

Inspiration for the MANGO School Design

MANGO School was founded on the belief in the transformative power of education, especially in engineering and manufacturing. For students at Dr. Martin Luther King Jr. Early College, hands-on learning and real-world challenges can shape their futures. We are committed to not only preparing students to graduate but to ensuring they have a clear path to their dream job.

The Planning Process

The planning process for MANGO School began with a comprehensive survey of the students' needs, desires, and future ambitions. We asked questions like:

- "What are some things you would want in your current school?"
- "What are some manufacturing operations you wish to learn more about?"
- "What are some of the subjects we should improve the most?"
- "What are you planning on doing in the future?"
- "How do you see manufacturing being used in your future?"

The survey results highlighted both the diversity of student goals and a shared desire for improvement. Students requested later start times, lunch schedule adjustments, and better facilities—including more electives, improved bathrooms, and expanded outdoor activities. They also showed interest in strengthening core subjects like math and social studies, as well as electives like art, gym, and JROTC.

Career aspirations varied widely, from military service and electrical work to fashion marketing and nursing. One student expressed interest in understanding medical equipment, reflecting the broad range of ambitions MANGO School aims to support.

These responses affirm that MANGO School should focus not only on academics but also on offering opportunities that prepare students for their future careers.

We also believe that reaching out to other schools is key to having an open mind and to improve, that's why we reached out to 3 other colleges and universities that revolve around manufacturing.

We asked question like:

- What are some features or trademarks that your school has put into play to give your students a learning experience in the classroom that they will never forget and put into practice for the real world?
- How has your school been able to involve the community around you and in turn have been able to give back to that community through what revolves around engineering and manufacturing?
- What opportunities exist within the school for students to develop their skills in hands-on or project based work that mirrors a manufacturing environment?
- What would you recommend as advice to an upcoming school that wants to strive to give their students a better learning experience with hands-on work and an environment that inspires creativity and innovation?

Sadly we did not receive any responses but we didn't stop there. We have done further research into other schools to see what we can apply to our school and we are making adequate changes and additions.

The Learning Environment

MANGO School combines academic rigor with real-world applications to make education challenging and engaging. We believe students learn best when inspired by their subjects. Our facilities offer hands-on experiences in engineering, robotics, and technology, focusing on the future of manufacturing and innovation. Students work with advanced systems, tackling projects like building robots to develop critical thinking, creativity, and collaboration. We also create an inclusive environment where students explore their passions and gain valuable real-world experience.

The Community Environment

At MANGO School, we aim to build a community where students, teachers, and staff support each other in a collaborative environment. Our goal is to inspire students to learn, share ideas, and grow.

Focusing on the manufacturing industry—engineering, welding, and technology—helps students gain a deep understanding of their field in a supportive community.

Our campus will reflect this focus, featuring open workshops and collaborative spaces where students can engage, and work together to solve real-world problems.

The Physical Environment

Our school's design is inspired by the industries we prepare students for, with a cogwheel or gear symbolizing the interconnectedness of manufacturing and engineering. This reflects our commitment to providing both practical and theoretical knowledge.

MANGO School's campus will include buildings for various manufacturing and tech fields. One will focus on hands-on classes like welding and automotive engineering, featuring a junkyard area for real-world practice. The main building will house technology-focused classes.

We're also adding a car show area to our cafeteria, where automotive students can showcase their work, from collision repair to models they've built. This will inspire creativity and make the student experience more enjoyable

Conclusion

If there is one message we want you to take away, it is this: MANGO School is here to make your dreams a reality. We want our students to learn in an environment that resembles the real world, preparing them for the career they want and giving them the experience they need to succeed.