About MTA
MTA Students become part of an academic team with access to mentors and industry experts, gaining hands-on, technical experience. The class of 2012 was the 16th graduating class, launching students into successful postsecondary education and careers.

Parents are eager for children to gain a tuition-free education in math, science, English, technology, and communication. Real-life, practical experiences in a manufacturing setting enhance the instruction.

Counselors and teachers appreciate that MTA is a TBAISD program that does not reduce a school’s student funding. Students earn high school academic credits through integrated MTA engineering and manufacturing curriculum.

Employers partner with MTA to develop a workforce prepared to compete in the global economy. Students benefit from job shadowing, mentoring and other professional opportunities, building strong relationships with the community and local industry.

Contact MTA
Instructor Tim Wheatley
995-1304
twheatley@tbaisd.org
www.mta.tc

MTA Guidance Board Chair
Al Jordan (GM, retired)

Career-Tech Center Principal
Pat Lamb

Newsletter provided by the MTA Guidance Board, and published by TBAISD Information Services

Attention Sophomores and Juniors!
MTA is Accepting Applications for 2013-14

Join Manufacturing Technology Academy educators for parent and student information nights. Learn about the rigorous academic and technical curricula, tour facilities, and visit with business partners, students, and teachers. Explore the benefits of MTA for students interested in engineering, robotics, management, product design or technological professions.

Tuesday, January 29
Tuesday, February 12
Thursday, February 28
6:30 to 8:00 p.m.

Please RSVP to attend an information night session at MTA. Additional March sessions may be added as needed. Call Tim Wheatley at (231) 995-1304 or twheatley@tbaisd.org. For additional information visit www.mta.tc.

Manufacturing Technology Academy is a tuition-free program sponsored by the Traverse Bay Area Intermediate School District, TBAISD Career-Tech Center, and area businesses. Students from Grand Traverse, Leelanau, Benzie, Antrim and Kalkaska counties are eligible to enroll. MTA is located at 2600 Aero Park Drive, Traverse City in the NMC Parsons-Stulen Building (off Parsons Road, near Three Mile Road).

GT Manufacturers’ Donation
Tom Hoopfer of East Jordan Iron Works presented a check to MTA which will support approximately 60% of MTA’s robotics competitions this year. Mr. Hoopfer oversees the Grand Traverse Manufacturers’ Golf Outing which donated the generous gift to MTA.

Thank You to the 2012 Sponsors of the Grand Traverse Manufacturers’ Golf Outing

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Tom Hoopfer presents check to MTA Instructor Hollianne McHugh
MTA students find success after graduation in many ways. One glowing example is 2003 MTA graduate Kristen Bautzmann. She attended Traverse City St. Francis High School and participated in MTA. Kristen earned a Bachelor of science degree from Kettering University where she majored in mechanical engineering and minored in business. She expresses gratitude for her education at MTA and connects it to her career success.

Kristen is currently product design engineer senior vice president of Lockheed Martin Space Systems. Kristen proudly reports that “the 3D software is used in the lab, but on top of that, engineers can install it on their workstations everyday.” She continues, “With the help of this software, we create simulations for the the new space shuttle Orion and GPSIII programs.”

Kristen’s next endeavor is to further develop the 3D software to allow interactive work instructions on tablets for technician use on the production floor. “I validate the software works properly and the simulations are mechanically accurate,” Kristen explains. “I also work with the interface to make sure that it is what engineers want.”

Kristen is fortunate to travel throughout the country with the corporate team, attending memorable conferences. She recalls one event, “The guest of honor was astronaut T.K Mattingly, the pilot who flew Apollo 16 to the moon, and helped the crew of Apollo 13 get back safely.” She was thrilled to hear this pilot’s first-hand experiences, and remarks on her path to success, “MTA helped me in my career because I learned to apply classroom learning to real life.”

“I encourage MTA students to participate in robotics challenges and learn all the hands-on manufacturing, because the experience is very valuable to a career in engineering.” - Kristen Bautzmann

Photos
Top Left: Kristen is in the second row, fourth from the right. She helped build the structure in the background, used to test the Lockheed Martin payload wing deployment assembly for a space vehicle.
Bottom Left: Lockheed Martin Collaborative Human Immersive Laboratory where Kristen works.
Bottom Right: Kristen’s department created this simulation for the space shuttle Orion manufacturing study.
Manufacturing Technology Academy Salutes its Talented Students

**2012 - 2013 MTA Seniors**

- Aaron Baker  TC Central High School
- Carter Childs  Elk Rapids High School
- Kurt Core  TC Central High School
- David Cunningham  Frankfort High School
- Mitchell Drilling  Grand Traverse Academy
- Courtney Dye  TC Central High School
- Jared Fekete  Benzie Central High School
- Nicholas Fisher  St. Francis High School
- Alexander Gorcycy  Home School
- Jeffery Hines  Grand Traverse Academy
- Logan Hunter  Kalkaska High School
- Aaron Jessmore  TC Central High School
- Jacob Loew  Elk Rapids High School
- Jordan Nye  Benzie Central High School
- Derryl Poynor  Benzie Central High School
- Zebulun Riccardo  Buckley High School
- Justin Rohrback  Suttons Bay High School
- Devon Rood  Buckley High School
- Richard Steffe  TC College Prep Academy
- Joshua Tabbert  TC West Senior High
- Julian Vandenber  TC Central High School
- Mary Warsecke  Benzie Central High School
- Anna Wheatley  St. Francis High School
- Lindsey White  Grand Traverse Academy

**2012 - 2013 MTA Juniors**

- Alexis Archer  Kalkaska High School
- Josiah Bakker  Home School/TC West Senior High
- Braxton Bliss  Buckley High School
- Michael Byard  Home School
- Max Casler  St. Francis High School
- Luke Crawford  TC Central High School
- Jeremy Eakins  Frankfort High School
- Michael Farese  Lk Leelanau St. Mary High School
- Madison Fink  Glen Lake High School
- Connor Gidner  Kingsley High School
- Mary Graham  Forest Area High School
- James Hittle  Kalkaska High School
- Makayla Huddleston  Benzie Central High School
- Kyle Kuuttila  TC College Prep Academy
- Amanda Lodge  Glen Lake High School
- Colton Lowe  Kingsley High School
- Colin May  Bellaire High School
- Austin Oberski  Frankfort High School
- Rachael Peabody  Benzie Central High School
- Wade Peplinski  Glen Lake High School
- Samson Raphael  Suttons Bay High School
- Anthony Rice  St. Francis High School
- Michael Rosek  Buckley High School
- Benjamin Schweiakart  Glen Lake High School
- Alec Stilwell  Bellaire High School
- Thomas Waning  Glen Lake High School
- Tristan Waters  Mancelona High School
- Paul White III  Forest Area High School
- Joel Zemanek  TC West High School
CURRENT RESIDENT OR

Robotics Team in Action

FIRST Robotics Events
Gearing up for the March 1 and 2 District FIRST® Robotics Competition at Traverse City Central High School, MTA has assembled a motivated team for the exciting event. The “Concussive Engineers” were assigned their mission and parts at the January 5th FIRST kick-off.

The FIRST Robotics competition challenges teams to solve a common problem in a six-week timeframe using a standard kit of parts and common rules. Teams build robots from the parts and enter them in a series of competitions. They are rewarded for design excellence, team spirit, professionalism and maturity, and ability to overcome obstacles. Another FIRST Robotics competition will take place March 15 and 16 in St. Joseph, Michigan.

National Robotics Challenge
MTA students also participate in the National Robotics Challenge events in Marion, Ohio from April 11 through 13. There will be two entries in the Manufacturing Robotic Work Cell competition, and one entry in the Sumo Robot and Rescue Robots divisions.

The National Robotics Challenge is composed of twelve contest categories designed to provide students an opportunity to demonstrate their understanding of manufacturing, technology, robotics and automation. Students are judged on their application of tech principles and concepts, and their ability to solve difficult problems through a team approach.

Visit www.nationalroboticschallenge.org for additional information.

Apply for MTA!
Manufacturing Technology Academy is a unique and enriching educational opportunity. Students are admitted based on application. It’s simple to apply... here’s how:

Visit MTA
• Students may arrange a visit through their school counselor
  OR
• Parents and/or students may attend an information night meeting (dates listed on page 1)

Mail application packet to:
MTA Admissions
880 Parsons Road
Traverse City, MI 49686

Application packet should include:
• MTA application
• 9th grade and first semester 10th grade transcripts
• One-paragraph essay explaining why student would like to attend MTA
• Two letters of recommendation (only one of which may be from an educator)

Interview with MTA Manufacturer’s Council
• Students will be contacted by MTA to schedule an interview after full application packet has been received and reviewed.

Await notification
• Students will be notified of the status of their applications by MTA after completion of the interview.

Questions? Contact MTA Instructor Tim Wheatley at 995-1304 or twheatley@tbaisd.org

MTA Mission Statement
To provide a learning environment which motivates and enables students to acquire world-class manufacturing and engineering skills while positioning them to compete and excel in the global market.