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2017 CTE Excellence in Action Award Committee
8484 Georgia Avenue, Suite 320
Silver Spring MD 20910

November 6, 2017

TO THE CTE EXCELLENCE IN ACTION AWARD COMMITTEE,

I would highly recommend the Engineering and Design Program at Milton Hershey School to be honored as a recipient for the 2017 CTE Excellence in Action Award. I have actively worked with Milton Hershey School students in the Engineering and Design Program for the past four summers. The students have worked for me as high school interns in our Research and Development Engineering group at TE Connectivity with an emphasis on manufacturing innovation. The students completed complicated technical tasks promptly and with minimal supervision. All the students have outstanding academic achievements in the classroom and an engineering design thinking skillset that was cultivated through the Engineering and Design Program at Milton Hershey School. I was extremely impressed with their approach and interactions with working professionals at such a young age. They thrive on challenging assignments which was clearly demonstrated throughout their internships. The students were extremely motivated and determined to be successful on the various engineering related assignments.

The Milton Hershey students demonstrated the ability to comprehend highly technical concepts and complete industrial assignments at an extraordinary elite level. For example, the previous students have used their CAD software knowledge in Autodesk Inventor, which is taught in the Engineering and Design Program, to design plastic connector parts which were subsequently manufactured on an industrialized 3D printer that was used for prototype testing. The student's familiarity with engineering design and exposure to 3D printing technology were evident during their internship as these are two fundamental concepts in the Engineering and Design Program curriculum. The students visited several manufacturing plants during their internship and had an important role in improving the cycle time for the manufacturing process of an injection molded product. This improvement resulted in \$20,000 worth of savings for the plant. Their written and verbal communication skills were demonstrated with the creation of numerous technical videos.

The Engineering and Design Program at Milton Hershey School is phenomenal! The program prepares students for STEM related fields in college, but more importantly in the working environment. I would wholeheartedly recommend the Engineering and Design Program for such a prestigious award. It would be my honor to answer any questions you have regarding the Engineering and Design Program. I can be reached at 717-986-7289 or through email at jason.chiota@te.com.

Sincerely,

Jason Chiota, Ph.D.

Legal Entity name,
a TE Connectivity Ltd. company.



Letter of Reference to CTE Excellence in Action Award Committee
Architecture and Engineering Track

Wednesday, November 1, 2017

To whom it may concern:

I've been employed as an engineer for seven years now, and I was completing my degree immediately before this time. Having been removed from a university engineering curriculum for such a short time, I can confidently say that the Architecture and Engineering Track and Milton Hershey School is doing a superb job at preparing its students for success in college and beyond.

I have volunteered on the MHS Advisory Committee for three years, and I've visited to teach in the classroom several times over these years. I am continually impressed at the resources and knowledge base to which the students have access. The curriculum is anything but static and does an excellent job at keeping up with emerging technology and industry trends. This is evidenced by the latest editions of industry design software, the new 3d printer in the classroom, and the projects in which the interns and recent graduates participate.

The certifications that are acquirable by the students are effective at demonstrating an elevated level of preparedness to college admission groups and potential employers. If two students were to have equivalent grades, it would be hard to imagine a student that enters academia with a more impressive resume than a MHS graduate.

I look forward to continuing to participate in the Architecture and Engineering program as it continues to evolve and send its students into a country that requires more technical literacy than any other time in history.

Sincerely,
Matthew Hockenbrock, PE
717-508-1547



Photo: Milton Hershey (Pa.) School. Used with permission.

Drafting a place to live

As part of the Milton Hershey (Pa.) High School engineering and design pathway, seniors are using Revit, architecture design software to design their own campus homes. Students create floor plans in 2-D while simultaneously creating a 3-D model of the structure of the house. These home designs may eventually be constructed on the residential campus by students in the construction and carpentry pathway.

Students, many coming from impoverished backgrounds, are using hands-on STEM skills to design beautiful homes while studying for the Revit certification exam.

To learn more about the program, watch the campus-produced video at: <https://www.youtube.com/watch?v=3uqq3-7EWRw>. ●



Watch
Video

- Holds 150 people
- Foyer
- Student run cafe
- Cafe storage
- Social area
- Custodian's closet
- 2 ADA bathrooms
- Study Area
- Elevator





3:15

Mr. Garcia NSH - Drafting - P...

LEHIGH
UNIVERSITY

Milton Hershey School
Milton Hershey School



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AutoCAD
 SolidWorks
 Revit
 AutoCAD LT
 AutoCAD 3D
 AutoCAD 2D
 AutoCAD Mechanical
 AutoCAD Electrical
 AutoCAD Plant 3D
 AutoCAD Civil 3D
 AutoCAD Map 3D
 AutoCAD Inventor
 AutoCAD Vault
 AutoCAD LT
 AutoCAD 3D
 AutoCAD 2D
 AutoCAD Mechanical
 AutoCAD Electrical
 AutoCAD Plant 3D
 AutoCAD Civil 3D
 AutoCAD Map 3D
 AutoCAD Inventor
 AutoCAD Vault

Tues
 Miss
 Anna
 Sabina
 Tamar
 James
 Trevon
 Jordan

Wed
 Brando
 Juan
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