BUILDING THE FUTURE

HATS OFF TO THE DEDICATED SCHOLARSHIP REVIEWERS!

Two times per year a group of up to 80 individuals dedicate their time to review and score scholarship transcripts and applications. Volunteers run the gamut from industry professionals and educators to retirees and others who value the mission of Nuts, Bolts & Thingamajigs and care about grooming today’s students to take the next step into a manufacturing career.

Introducing the 2015 scholarship winners:

Spring 2015
Joshua Smith, Loveland, CO
Colorado State University, Biomedical Engineering and Mechanical Engineering - dual degrees

Titus Shumaker, Oxford, MI
Kettering University, Mechanical Engineering

Sydney Tefft, Salem, IL
Saint Louis University, Mechanical Engineering

Louis Bogowith, Gainsville, MO
Lincoln College of Technology, Welding

John Dubravec, Rockford, MI
University of Michigan - Engineering, Manufacturing

Morgan Nash, Kettering, OH
The Ohio State University, Mechanical Engineering

Mark Emond, Jr., Oxford, WI
Madison Area Technical College, Automated Manufacturing Systems Technology (AMST)

Angela Avides, Palatine, IL
Harper College, Welding Technology/Maintenance Technology

Jovani Bias, Franklin Park, IL
Triton College, Engineering Technology/Mechanical Design Degree

Robert Robinson, Niceville, FL
Northwest Florida State College, Drafting and Design

Michael Czerniakowski, Toledo, OH
The Ohio State University, Engineering

Michael Murphy, Marion, IA
Kirkwood Community College, CNC Machining

*James McClure, Zimmerman, MN
Anoka Technical College, Mechanical Drafting

Fall 2015
Nathaniel Lyon, Draper, UT
Weber State University, Manufacturing Engineering

Jonathan Hartzler, Rosedale, IN
Vincennes University, CNC Manufacturing/ Machining

Kevin Carpenter, Waterford, NY
SUNY Polytechnic Institute, Mechanical Engineering

Kayla Gronewold, Mendon, IL
Georgia Institute of Technology, Mechanical Engineering

Olivia Hadlaw, South Amboy, NJ
New Jersey Institute of Technology, Mechanical Engineering

Martine Montgomery, Fleming Island, FL
Georgia Institute of Technology, Mechanical Engineering

Sean Campos-Jaramillo, Gallup, NM
University of California-San Diego, Computer Engineering

Jason Callahan, Ogden, UT
Weber State University, Mechanical Engineering

Bartosz Kozinski, Norridge, IL
University of Illinois at Chicago, Mechanical Engineering

Curtis Davis, Marshaville, MO
Missouri University of Science and Technology, Engineering

Lauren Werner, Manteno, IL
Purdue University, Industrial Engineering

Ryan Henderson, Sussex, NJ
Penn State University, Mechanical Engineering

Daniel Pousette, Austin, TX
University of Texas at Austin, Mechanical Engineering

*Not pictured
BUILDING THE FUTURE

Making Manufacturing a Meaningful Career Choice

WE CAUGHT UP WITH A FEW SCHOLARSHIP WINNERS — HERE’S WHAT THEY HAVE TO SAY.

“I love my machining classes at Penn College! First semester was a little bit of an adjustment with being away from home and time management, but I survived. I am currently in a fixtures and jigs class where I am learning a lot and have just started with some CNC classes. I am happy to say that I know I chose the right career path because my passion for machining has grown since I started here at Penn College. I greatly appreciated the money I received last year, and hope to qualify for some again this year so I can continue at Penn College. Every little bit helps.”

– Zachary Plank

“I am currently in the Combination Structural and Pipe Welding Program at Hobart Institute of Welding Technology. So far, I have taken 5 courses over the past 16 weeks and have a GPA of 3.36 for my coursework. I have also passed all of my welding certification tests. I am interested in working on a pipeline as a welder and will start looking for opportunities later this spring. I am happy with the choice I have made to pursue my welding training and to be at Hobart. Thank you for the support NBT provides individuals like me who want to pursue skilled trades education. The financial aid is extremely helpful and appreciated.

– Bryan Head

“Lots of math this semester, and Calculus is seeming more like an English class. All sarcasm aside, I do love math and these courses keep teaching me new things. When I am not in class I find myself working on small projects at home ranging from building my own bench top power supply to data cluster artificial intelligence.

In high school I was always in the Information Technology building and really grew to love working with computers and electronics. My sophomore year I joined the high school robotics team and went on to eventually become the Team Captain my senior year. I have been mentoring the same robotics team for 6 years now. The team really occupies my spare time with assisting in fabricating parts for the robot on anything from a CNC lathe to a full CNC Jr. I learned about parts organization, parts fabrication, how to operate basic power tools, operating complex CNC machines, team management, and so much more that I could not even try to list.

My current career goals are to obtain an AS in Drafting and Design along with a general AA degree. I love working in AutoCAD but working with my hands is just as great of a feeling. Maybe it is simply the feeling of being able to say “I made this from scratch”. In AutoCAD you start with a blank screen, in the real world you start with sheet metal. I have been looking into everything from assembly line automation to computer engineering and electrical engineering. For my next goal after my AS and AA, I am considering the University of West Florida for a Bachelors in Computer Engineering. At one time I had thought of going as far as a PhD in Aerospace Engineering mostly for the space robotics courses I would have to take to get that degree.

I am very grateful to NBT and FMA for the opportunities they have given me. Even being able to say I am a student member of FMA actually had others want to talk just from being members or having family that were members. I found the NBT scholarship program from being listed on the USFirst.org scholarships list. From there, this has all been one crazy ride to the next.”

– Robert Robinson
“So far, I am really enjoying my classes along with my major. I am studying abroad in Madrid, Spain this semester and it has taken quite of bit of time to adjust to the new environment. My classes are rather tough with Thermodynamics and Dynamics at the top of that list. I cannot thank the Nuts and Bolts Foundation enough for the help it has already given me.”
– Sydney Tefft

“I like my classes a lot and find each one of them challenging. I am mentoring a third grade Destination Imagination group at a local elementary where they are building a robot for competition. My grade point average is a 3.87 and I am a member of three honor societies with prospects to join another. I want to thank all of you at NBT for your support.”
– Jordan Prasifka

“I would like to say I am very grateful for the NBT scholarship and it helped. Currently I am on my way to graduating with a Bachelor of Science in Welding Engineering from the Pennsylvania College of Technology. I have been thinking a lot about what type of career I want to pursue and I have looked at several energy companies. Long term I plan on taking the Certified Welding Inspectors (CWI) exam dealing with structural steel (AWS D1.1), bridges (AWS D1.5), and pipelines (API 1104). Also becoming an American Society for Nondestructive Testing Level II radiographer & ultrasound technician which are techniques used in pipeline testing.”
– Brandon Platt

“Thank you for the Nuts, Bolts & Thingamajigs Scholarship I received. My college expenses are huge and I really appreciate that you recognized my hard work and am helping me out with my fall 2015 semester at Penn State University.

My freshman year in the College of Engineering was extremely busy both academically and with my involvement in the Penn State SAE Formula Race Team. I was on the Suspension Subsystem and found myself reviewing designs and manufacturing a lot of parts for the car. From titanium arm inserts to aluminum bearing carriers, I certainly gained a lot of machining experience my freshman year. At the competition in May, Penn State Racing placed 33rd out of 120 teams and completed all of the events.

Next year, I will be the Manufacturing Lead for the team and I am looking forward to building another car from the ground up and improving upon our 33rd place finish. Because of my work with the Penn State Race Team, I was selected for a unique and exciting learning opportunity at the end of my freshman year. To promote STEM education, Axalta and Penn State teamed together to give a select group of Penn State engineering, business, and communication students an inside look at racing’s engineering challenges and business structure. In addition to meeting with NASCAR’s Jeff Gordon, the weekend included a garage tour and panel discussions with Axalta, NASCAR, Pocono Raceway and Hendrick Motorsports executives. I begin my sophomore studies in August and am planning to major in Mechanical Engineering and minor in Engineering Mechanics and Off-Road Machinery. Thanks again.”
– Ryan Henderson

“I am excited to begin my studies at Georgia Institute of Technology where I know I will receive an excellent engineering education.

Thank you for the copy of Solid Works, I have had the opportunity to work with this system in the past and appreciate having a license of my own. I am taking “Intro to Mechanical Engineering Graphics” in my first semester and this will certainly be helpful.

My student membership to FMA will give me valuable access to different resources and insights and the ability to participate in the FMA Open Forum. It is an honor to receive this scholarship, it definitely adds to my motivation to excel. You have my gratitude and that of my family.”
– Martine Montgomery
Taking a closer look at our scholarship winners:

ALL IN THE FAMILY

Meet Cole and Titus Shumaker; both have been awarded an NBT scholarship (2011 & 2014) and attend Kettering University. These two amazing young men are majoring in mechanical engineering. Their older brother, Andrew, also a Kettering graduate with the same major, went on to receive his master’s degree while at his current employer. Cole and Titus are currently in coop programs in their area.

Along with their father and mother, all three brothers are involved in robotics competition and mentoring since 2009.

“My family values STEM education. I have another older brother who is majoring in a STEM career, his name is Cody. He recently graduated from Malone University in Canton, Ohio.

I have enjoyed my time at Kettering University. All my hard work in high school paid off. I was able to take sophomore level classes and I earned a 3.45 GPA. I liked the hands-on classes and I am enjoying learning about product development and manufacturing while I coop at General Motors. My first coop term at GM, I did a lot of benchmarking. This term, I am learning about our suppliers.

My parents and I really appreciate the scholarships that have been awarded to our family. It has been expensive to have four sons in private universities and the scholarships have helped us achieve our goals.”

—Titus Shumaker

BROTHERS WITH A COMMON THREAD
CONSIDER A CAREER IN MANUFACTURING

Not only did Kirk and Kevin Dickson each receive an NBT scholarship, both chose Rose-Hulman Institute of Technology to study Mechanical Engineering. Kirk is currently involved in a special Entrepreneurial program for select freshman called ESCALATE. Kevin, graduated in 2013 and is currently employed as a Manufacturing Engineer at Subaru.