



# Annual Report

## 2016 IN REVIEW

### AWT Foundation

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Tel 440-525-9017  
Fax 440-951-5840

PO Box 123  
Mentor, OH 44061

[www.thinkmfg.com](http://www.thinkmfg.com)  
[awt@thinkmfg.com](mailto:awt@thinkmfg.com)

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*Our Mission:*

*Working  
together to  
promote  
rewarding  
careers in  
manufacturing.*

## To Our Members and Supporters

### Thank you for working together with us.

We hope you find this report helpful. It's been a big year, and we are looking forward to 2017 – more strategy, keeping what works and building on it, and finding ways to collaborate with others.

In this report you'll see three main sections:

- **Programs:** We added three new programs in 2016 and retained many of our past successful programs as well.
- **Financial Report:** Although we'll keep this section brief, we hope it helps you gain an understanding of how AWT operates.
- **Strategic Plan Update:** Last year AWT completed a one-year-strategic plan. We'd like to share how we're doing on that.

If you have any questions or concerns, or would like to be more involved, please let Alice or any board member know. Thank you!

2017AWT Board Members		
<b>Chairperson Roger Sustar Fredon Corporation</b>	Vice-Chair Rod Howell Libra Industries	Chris Burton Burton Industries,
<b>Jennifer Weinbrecht Component Repair Technologies</b>	Tanya DiSalvo Criterion Tool & Die Inc.	Steve Sanders Habco Tool
<b>Rich Wilson Matrix Tool &amp; Machine, Inc</b>	Aaron Benz Chata Biosystems	Sara Spence Spence Technologies
<b>Roxanne Putnam Suburban Manufacturing Co.,</b>	Reese Armstrong Swagelok	John Rampe Torque Transmissions
<b>Alyson Scott Fredon Corporation</b>		

### Foundation Staff

Alice Cable,  
Executive Director

## Current Programs

<b>RoboBots (started in 2010)</b>	
<b>2016 Summary:</b>	258 Students participated Counties represented: Ashtabula, Cuyahoga, Geauga, Lake, Summit, Medina
<b>2017 Details:</b>	April 29, 2017 Lakeland Community College
<b>Made possible by:</b>	Members, Schools, Students, Sponsors, Coaches, Lakeland Community College

<b>Teacher Welcome Day (started in 2015)</b>	
<b>2016 Summary:</b>	Approximately 40 teachers from Lake County visited local manufacturers and spoke with legislators
<b>2017 Details:</b>	TBD
<b>Made possible by:</b>	Lake County Ohio Port & Economic Development Authority and Lake County Educational Service Center

<b>Think Manufacturing Career Expo (started in 2012)</b>	
<b>2016 Summary:</b>	27 Manufacturers 450 Students
<b>2017 Details:</b>	October 5, 2017 for Expo Date TBA for Presentations
<b>Made possible by:</b>	A partnership with the Lake County Chambers of Commerce including: Eastern Lake County Chamber of Commerce, Willoughby Western Lake County Chamber of Commerce, and Mentor Area Chamber of Commerce

<b>AWT Golf Outing (started in 2013)</b>	
<b>2016 Summary:</b>	130 golfers August 29, 2016 at Kirtland Country Club
<b>2017 Details:</b>	Monday, August 28 Kirtland Country Club
<b>Made possible by:</b>	Our golf committee (Sara Spence, Steve Sanders, Roxanne Putman, Rich Peterson), our volunteers, our golfers and our sponsors!



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## Programs introduced in 2016

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185 Students

27 Teams

16 Schools

6 Mentors

1 liaison

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### Junior Bots

Thanks to a \$150,000 State Grant through support from Ohio State Senator John Eklund & Ohio State Representative Ron Young, 16 Lake & Geauga County Middle Schools could offer their students real-life advanced manufacturing experiences working closely with their company sponsor...and the experience of a lifetime!

We find that by the time students reach high school, their minds may already be made up about what kind of pathway they might be on. Giving middle-school students an opportunity to participate in a scaled down model of RoboBots allows them to experience basic manufacturing concepts like design, assembly, machining, testing, and more.

### Junior Bots Updates for 2017:

- Addition of Teacher Liaison through ESC
- Option to modify bot within NRL regulations and 2.2 lb weight limit
- Botcoin Store: Students use virtual dollars to order parts within budget
- New Junior Bots Cage to allow for less lag-time at competition
- Double-elimination tournament to allow for extra chances for middle schoolers to battle



Perry Middle School Robotics Team Working



Bella Frohnapel, 10, Painesville, puts the finishing touches on the Mars Land Rover she built during Aerospace Engineering for girls at Summer Manufacturing Institute. Kristi Garbrandt — The News-Herald

By Kristi Garbrandt, The News-Herald

POSTED: 06/25/16, 9:22 PM EDT | UPDATED: ON 06/25/2016

Area fifth- and sixth-grade girls discovered during the testing phase that Mars land rovers don't run on every surface.

The girls attended Summer Manufacturing Institute Camps for Lake and Geauga county during the week of June 20-24, where they had the opportunity to explore aerospace engineering and build miniature Mars land rovers at the girls-only camp.

This initiative, which also hosted a co-ed medical manufacturing camp the previous week where students built a prosthetic arm, was created "to promote middle school students interested in



Lily Whittaker, 10, Brynn Bradac, 10, and Paige Dolovecky, 10, all of Kirtland watch as Olivia Dolovecky, 10 also of Kirtland, tests the Mars Land Rover she built during Aerospace Engineering for girls at Summer Manufacturing Institute.

Article from the News-Herald,  
June 26, 2016, about Summer  
Manufacturing Institute.



**Summer Manufacturing Institute  
Camps for Lake and Geauga County  
5th/6th Graders**

**Medical Manufacturing Week**  
June 13-17, 2016

**Aerospace Engineering for Girls**  
June 20-24, 2016

**Camp Schedule:**  
9:00 a.m. - 3:00 p.m. Monday-Thursday  
9:00 a.m. - 12:00 p.m. Friday

**For More Information and To Register Go To:**  
[www.thinkmfg.com](http://www.thinkmfg.com)

Sponsored by the AWT Foundation 

*Only \$150 Lunch Included*

*Camps Held at Auburn Career Center*

## Summer Manufacturing Institute 2016

Sponsored by AWT Foundation in collaboration with [L.E.A.F.](#), OhioMeansJobs Geauga County, and the office of [United States Senator, Sherrod Brown](#), the Summer Manufacturing Institute is two week long Summer Day Camps with a manufacturing focus for 5th & 6th grade students to be held at [Auburn Career Center's](#) Fab Lab.

Camp details include: Two exciting week long sessions in June with a cohort of 25 fifth/sixth grade campers per week. The make-up of the week will be financial literacy, marketing, manufacturing their project and advanced manufacturing site tours. Campers will also manufacture their own Mars Rover or prosthetic arm! On the 5th day parents, friends and loved ones will be invited to a showcase breakfast where campers will highlight their week.

We are so pleased to announce that SMI will be back again in 2017! Here's what you need to know.

WHAT: Two weeklong day camps

WHO: Lake & Geauga kids, entering 5th & 6th grade.

WHERE: Auburn Career Center

WHEN: June 2017

HOW MUCH: \$150/week (includes lunch, scholarships available)

WHY: Field trips, take home projects made in the fab lab, and more!

The 2017 Summer Manufacturing Institute is a project of Auburn Career Center, OhioMeansJobs Geauga County, Senator Sherrod Brown, and AWT, with special thanks to LEAF for their support in 2016.



## EduFactor

October 2016: The Alliance for Working Together (AWT) Foundation's mission to promote the development of rewarding careers in manufacturing and impact Ohio's manufacturing community continues to advance as they partner with Edge Factor to **support 51 public and private middle and high schools in Lake and Geauga counties with eduFACTOR's inspiring media and interactive resources.**

"We are beginning to see increased awareness (among the educational community) of the skills-gap and we're seeing lots of schools working to make changes. We are so proud of the partnerships we're building with educators, counselors, parents and others. Working together in this way, we can help change the overall perception of manufacturing in our community, and build more exposure to today's manufacturing opportunities," said Alice Cable, Executive Director of AWT. "In recognition and celebration of this momentum, we're thrilled to be able to give eduFACTOR to local schools. Edge Factor's stories and resources will equip our teachers and guidance counsellors with resources to show students how careers and advanced manufacturing technology changes lives and builds our world."

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*Schools using EduFactor through AWT as of April 1 2017:*

*25 schools*

*426 unique users*

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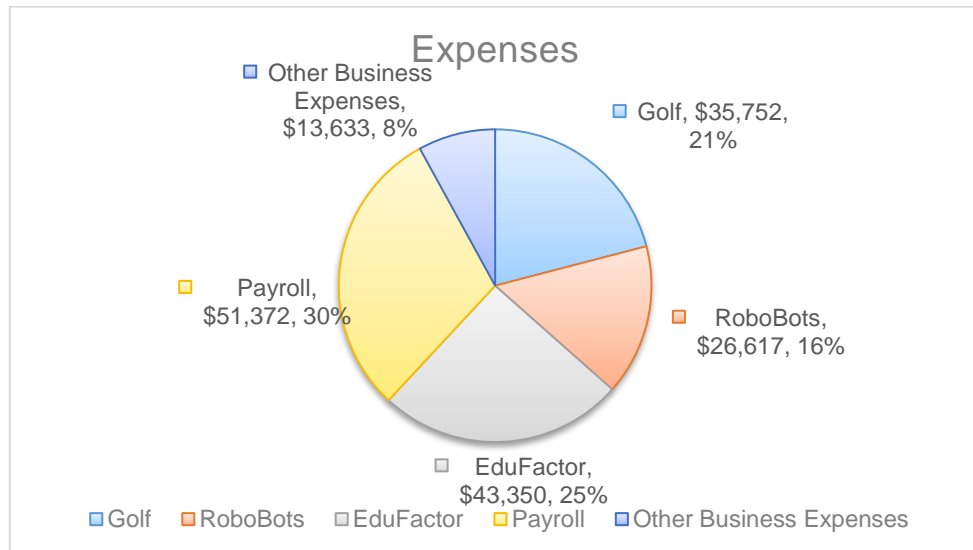
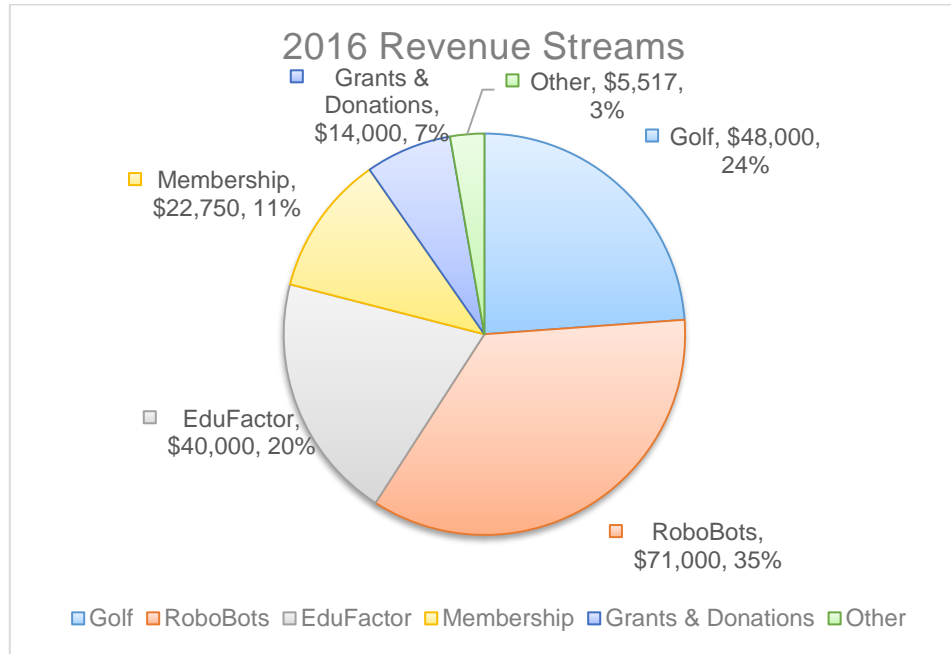
Edge Factor produces films and TV series that tell stories of innovative teams who are pushing back the edge of what's possible as their ideas become reality through advanced manufacturing. Based on these stories, Edge Factor creates interactive resources to raise awareness and guide students towards amazing pathways in career and technical education and manufacturing, available through eduFACTOR memberships.

To impact their manufacturing community and inspire the next generation of makers, the AWT is sponsoring 51 public and private middle and high schools with access to Edge Factor's platform of cinematic, story-driven media and Providing schools with eduFACTOR memberships, the AWT Foundation is directly impacting their manufacturing community by opening the eyes of students, teachers, guidance counsellors, parents and leaders to discover extraordinary manufacturing careers and inspiring the next generation of makers to pursue manufacturing pathways.

*\*STEAM stands for Science, Technology, Engineering, Art and Math.*



# Financial Report



## Coming Up in 2017

Saturday, April 29 <sup>th</sup> All Day	Lakeland	7 <sup>th</sup> Annual RoboBots Battle
Friday, May 12 <sup>th</sup>	Lakeland	Manufacturing Summit (by invitation only)
Wednesday May 17 <sup>th</sup>	tbd	How Healthcare affects your Employees' Health (Perspectives from Providers – with an insurance update)
June 5 <sup>th</sup> – June 9 <sup>th</sup>	Auburn Career Center	Summer Manufacturing Institute Week 1
June 12 <sup>th</sup> – 16 <sup>th</sup>	Auburn Career Center	Summer Manufacturing Institute Week 2
June/July	Lakeland	AWT Strategic Planning Meeting
Friday, July 14 <sup>th</sup>	Lost Nation Golf Course	#GoLakeCounty Golf Outing benefitting AWT and Lake County schools
*Monday, Aug 28 <sup>th</sup>	*Kirtland	AWT Member Golf Outing
Thursday, Oct 5 <sup>th</sup> (daytime)	Wickliffe High School	ThinkMFG Career Expo
Wednesday, Oct 19 <sup>th</sup>	tbd	"Promoting MFG Careers" Roundtables: WireNet, WorkROOM, TriC, Magnet
Late October	Fredon	RoboBots Kickoff
Wednesday, Nov 15 <sup>th</sup>	Lakeland	Lakeland's new makerspace
Wednesday, Dec 13 <sup>th</sup>	tbd	Holiday event

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## Contact Us:

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Mentor, OH 44061

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