



# REED-CUSTER

## Advanced Manufacturing Industrial Technology Newsletter

Careers for a renewable and sustainable future

### What have the Students been up too?



The Cabinet Making students have been working on their acoustic guitar projects.

They are just about ready to put their coats of polyester on the bodies to seal the grain of the wood.

This project provides opportunities for the student to learn; how to work with wood, safely work with equipment, accurately measure, problem solve, work as a team, follow directions, material handling, surface preparation, and finishing.

They will also learn how to tune their finished guitar using an app called, "gstrings".

The Orientation to Technology students have been designing in AutoCAD and Mastercam to create a design for their long board project. **Veneer Tech, Franklin Adhesives, CNC Software, Bessey Tools, Graeco Industrial Finishes, Paint Pockets, Rockler, Uneeda, Accurate Technology, Woodline USA, and Rockler** have been instrumental in supporting the long board project. The students are very creative with



their designs. Pictured above is one such student and her design.

The Production class has



been working on a set of kitchen cabinets for new home owners in the Mattoon, IL area.

The cabinets have hard maple interiors with stained hard maple doors and drawer fronts. The boxes are complete and the next phase will include the staining and finishing of the doors and drawer fronts. The job will have soft maple dovetailed drawer boxes. We plan on helping the owners install the cabinets in their new home dur-

### Burger Boat Field Trip

The students will be going to Burger Boat on May 5, 2017. Burger Boat is located in Manitowoc, WI. They create luxury yachts and commercial yachts. This is a great experience for the students to see first hand different trades (metal working, woodworking, plumbing, electrical, hydraulic

systems, HVAC) all working in one place. The students will tour the ship yard, the construction bays, the engineering and design center, and the joinery shop with CNC equipment.

This opportunity is only possible due to the generosity of Jim Ruffolo the President and CEO

of Burger Boat.

The students are already excited to travel up to Manitowoc and learn more.

[www.burgerboat.com](http://www.burgerboat.com)



#### Upcoming Program Dates:

Nashville, TN Manufacturer Visit	Feb. 2017
Freshman Open House	Feb. 2017
Cabinet Job Installation	Mar. 2017
Cabinets and Closet Field Trip	April 2017
Burger Boat Field Trip	May 2017

#### Industry Statistics:

- Do you know that the United States has 750 million acres of trees?
- Do you know the U. S. forestry and forest products industry employ approximately 953,000 people?
- Do you know that the U. S. is facing a skilled worker shortage of 600,000. And it's going to increase.

# Advanced Manufacturing

Careers for a renewable and sustainable future

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## Woodworking as a Profession—Certification

I am tireless in my resolve to provide students with academically sound and industry relevant educational opportunities. I teach towards my students to gaining a clear understanding of the challenges they will face with future educational opportunities and the workplace environment and the determination to overcome any obstacles they may encounter.

One of the ways we are training our students for a sustainable and renewable career is with the WCA Woodworking Career Skill Standards, [www.woodworkcareer.org](http://www.woodworkcareer.org). Students have the opportunity to receive the “Saw Blade” certificate. Student passports and their online record of achievements, skills, and knowledge give them the advantage when looking for a career. Employers value a person who has shown dedication to our trade through the acquisition of foundational skills and good work habits.

We will start certifying our students this year using the Woodwork Career Alliance on North America’s Skill Standards at Reed Custer High School.



[www.woodworkcareer.org](http://www.woodworkcareer.org)

## Featured Industry Partner

The best educational opportunities are created by industry and education working together. The idea has guided every aspect of the industry technology program here at Reed Custer High School as well as with my past programs.

Over the years, industry partners have provided teacher training, technical support, field trip opportunities-virtually and onsite, donated materials and equipment, provided demonstrations, internships, equipment repairs, trade journal subscriptions, trade show attendance, and support with student projects.

In this edition our featured industry supporter is **Thermwood Corporation**, [www.thermwood.com](http://www.thermwood.com). Their guidance and support over the years has been invaluable. Their most recent involvement was with the installation of our new model 43 CNC router.

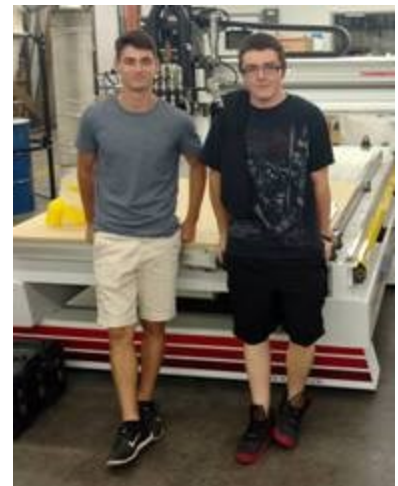
Thermwood Corporation is the oldest and most technically advanced manufacturer of high technology machines tools called

CNC Routers. Thermwood also develops, manufactures, distributes and supports allied software technology, and equipment/service intended primarily for the manufacturing sector.

Thermwood started manufacturing our Cabinet Shop Model 43 CNC Router during the month of June 2016. We received delivery of the machine August of the same year.

During the summer of 2016, two students and I went to Thermwood in Dale, IN for training on the CNC Router. Vincent and Alex did a great job learning how to program the router writing G & M code by hand. We were at Thermwood for one week. It was a great opportunity for me to brush up on my skills and for the students to learn an industry recognized skill. Thank you Thermwood for the support and technical help given to the industrial technology program at Reed-Custer High School.

(Vincent and Alex-pictured above)



(Vincent and Alex-picture above)

[www.thermwood.com](http://www.thermwood.com)

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