

Austin Rothgerber

5701 South 600 East, St. Anthony, IN 47575

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Education

- **Forest Park High School (2011-Present)**
1440 Michigan St.
Ferdinand, IN 47532
G.P.A 3.3
On course to graduate with both academic and technical honors.
- **Rose-Hulman Operation Catapult (2014)**
Two and half week program in engineering and science for high students.

Work Experience

- **Crystal Water Designs, LLC (2014-Present)**
5701 South 600 East
St. Anthony, IN 47575
Job Duties: Entrepreneur/small business operator, designer, laser operator
- **Universal Farm Solutions, LLC (2014-Present)**
12210 N Bradford Rd NE
Palmyra, IN 47164
Job Duties: Dubois County Sales Representative, Field Technician, Web Services Manager
- **Versteel, Inc. (2015-Present)**
2332 Cathy Lane
Jasper, IN 47546
Job Duties: translate 2D designer sketches into 3D CAD models for production.
- **Englert's Home Comfort Center (2010-Present)**
650 W. Division Rd.
Jasper, IN 47546
Job Duties: sales assemble furniture, input computer data, inventory, and delivery
- **Boogie Tunes Sound and Light Show (2010-Present)**
2575 St. Rd 164
Jasper, IN 47546
Job Duties: Disc Jockey, set up/tear down sound and lighting equipment, Web Services Manager

- **Englert's Farm** (2003-Present)
5701 South 600 E
St. Anthony, IN 47575
Job Duties: Feeding and caring for cattle, hay production, crop planting and harvesting, machinery maintenance, building and maintaining fence, mowing, spreading fertilizer

Equipment operated

- Skidsteer
- Various tractors (40 - 350 horsepower)
- Hay production equipment
- Crop production equipment
- Other miscellaneous equipment

Activities

- **4-H** (2005-Present)
- **FFA** (2012-Present)
- **Project Lead the Way (PLTW)** (2011-Present)
- **BETA Club** (2013-Present)
- **Boy Scouts** (2004-2007)
- **Nano-line Team** (2012-2014)
- **Prom Board** (2013-2014)
- **Renaissance** (2011-Present)
- **Students Against Destructive Decisions (SADD)** (2012-Present)
- **Tech-club** (2011-Present)
- **Wrestling** (2003-Present)
- **Youth Group** (2013-Present)

Honors & Awards

- **Invited to 2013 PLTW State Conference** to display projects and speak about project based learning
- **Guest Speaker at 2013 Indiana Rural Summit** (2013) Represented LEAF
- **Boeing Defense, Space and Security** (2013) Invited to tour facility and luncheon with 10 of the original McDonnell Douglas Engineers (MAC's Old Team – original development team of Mercury and Gemini space program)
- **PLTW Principles of Engineering Award** (2012-2013)
- **4-H Projects and Contests**
 - 2011 senior compact tractor operator – champion (moved on to state competition)
 - Outstanding 4-H'er of the Year
 - Electric project - reserve champion
 - Baskets project - 2010 champion
- **Industrial Technology Award** (2013) Forest Park High School - for lasered wood and acrylic display (2013)

- **Forest Park High School Art Show Merit Award (2013)** PLTW lighted acrylic sign
- **First place, Local History Essay Contest, Ferdinand Historical Society (2014)**
- **Autumn Voices Creative Writing Contest (2014)**
- **Regional Phoenix Contact/Nanoline Competition, Purdue University (2013)** Fourth Place
- **Presenter at Vincennes University Jasper Campus Manufacturer's Night**
 - 2014 - Represented Universal Farm Solutions
 - 2013 - Represented LEAF
- **Hoosier Boys State at Trine University (Angola, Indiana) - 2014**

Volunteer and Community Service Experience

- **Robofest Robotics Competition 2014** - Volunteer Judge
- **Dubois County Community Food Bank**
- **St. Anthony Parish** - food drives, church picnics, Vacation Bible School leader
- **St. Anthony Conservation Club** - shooting match board runner, general work sessions, bow shoot set-up and teardown
- **St. Anthony Sesquicentennial** - 2014 Entertainment committee

T.V./Radio Interviews – available at crystalwaterdesigns.com/about-us/arothgerber

LEAF

- Spoke about Budding LEAF and LEAF program and how one could get involved and signed up

National Manufacturing Day

- Spoke about the precision farming technologies that would be on display at the event

Leadership Roles

Founder, Treasurer – LEAF (June 2013 — Present)

- Peer-to-peer learning network in STEM fields
- Project based learning led by students
- Multi-branch non-profit in southern Indiana
- Team leader of Budding LEAF, a week long summer camp for 8-12 year olds

Prom Board (2013-2014) Entertainment Chair

Other Major Projects

- **Construction Manager, WECARE (Worldwide Energy Collection and Retention Engine)** (November 2012—present). A group of eight Project Lead the Way students driven and focused to harvest wind energy with previously unobtainable minimization of energy loss due to friction and poor design.
- **Co-Founder, Treasurer, LEAF (Learning Experiences in Applied Fields)** (June 2013— present). Triweekly student-led sessions in which students teach and learn from one another. Skills and content such as robotics, programming, architectural design, software applications such as Photoshop, Autodesk, etc. Students choose which skills to learn and which to teach. LEAF is a project-based learning experience that complements the opportunities offered in local high schools
- **BuzzBox 3-D Printer Enclosure** (2014 – present). Enclosure for a variety of small format 3-D printers. Address problems including warping, cracking, curling, noise, fumes generated and heat loss. BuzzBox also features 3D printed tool holders to store common tools used in the 3D printing process. The enclosure is designed and developed through my company, Crystal Water Designs.

Industrial Products Designed

- **Specialty die cutting tool for food industry** – Using a laser cutter to depth cut channels into an acrylic sheet and insert .018 inch thick steel rolled die for use of cutting out cookie dough. This die has increased production at The Sisters of Saint Benedict Convent and they are now looking at the possibilities of another die to automate the process of another type of cookie.
- **Promotional product for Southern Indiana Mayors Conference** –
- **Quality control measuring tool** – Used by local furniture industry to make the quality inspection process quicker and easier. The tool replaces multiple jigs and eliminates a multitude of steps in the quality control process.
- **Specialized military material test cutting using laser** – influenced Chicago military contractor to use laser technology to produce their product in a more efficient way. Specialized material was a lightweight and high strength material made from multiple substrates.

Skills, Expertise, & Software Competencies

- Team Leadership
- Public Speaking
- Communication
- Computer/Keyboard
- Farm Equipment Operation
- Autodesk Inventor
- AutoCAD
- 3D Rendering
- QuickBooks Accounting Software
- Microsoft Office- Word, PowerPoint, Publisher
- Corel Draw X3, X6, X7
- Operation of Laser Engraver/Cutter Machine
- Adobe Illustrator
- Wordpress/HTML
- 3-D Printing
- Prezi