

Sarah P. Gerrol

Email: sgerrol@gmail.com

Education:

2013-2015 **Virginia Polytechnic Institute and State University**, Blacksburg, VA
Educational Specialist in Educational Leadership

2002-2003 **Virginia Polytechnic Institute and State University**, Blacksburg, VA
Masters in Curriculum and Instruction with Vocational Special Needs Endorsement

1999-2002 **Virginia Polytechnic Institute and State University**, Blacksburg, VA *B.A. in Secondary Education concentration in Technology Education*

Experience:

2011-Present **Salem City Schools**, Salem, VA
Technology Education Instructor (Robotics, Technical Drawing, Engineering, Architecture)

- Grades 6th -12th at Salem High School and Andrew Lewis Middle School
- Technology Education Department Head

2003-2011 **Roanoke County Public Schools**, Roanoke, VA
Technology Education Instructor

- Grades 6th -12th at Glenvar Middle and Glenvar High School
- Elective Department Head

2005-2009 **Virginia Western Community College**, Roanoke, VA
Business and Engineering Adjunct Faculty

- AutoCAD 2D/3D

2005-2008 **Locust Grove United Methodist Church**, Salem, VA
Youth Director

- Youth Program Planner

2000 **Patrick County Public Schools**
Hardin Reynolds Elementary School, Stuart, VA
Summer School Writing and Technology Instructor

- Basic computer and writing skills

1999-2001 **Patrick Henry Community College**, Martinsville, VA
Spanish Summer Camp Instructor

- Spanish words and phrases.

Teaching Accomplishments:

Awards:

- Salem High School Teacher of the Year, 2015
- Roanoke Blacksburg Technology Council Educator Award, 2014
- Air Force Association Teacher of the Year Award, Roanoke Chapter, 2013

Professional Organization Involvement:

- Virginia Technology Education Association, Blue Ridge Region President, 2004-2007
- Virginia Technology Education Association, State Secretary 2003-2004
- Virginia Technology Education State Conference Team 2009-2010
- Presented in Kansas City on Standards for Technological Literacy- ITEEA Conference
- Presented on Women in Technology Education in New Mexico- ITEEA Conference
- Association of Career and Technical Education (ACTE) Member

School Activities:

- LifeTech Club Sponsor -2016-Present
- Girls Who Code Co-Sponsor -2016-Present
- FIRST Robotics Coach -2013-2017
- Junior Honor Association Club Sponsor - 2011-Present
- First Lego League Robotics- 1st Place 2009 and 2010
- VWCC Robotics - 2010
- Technology Student Association (TSA) - 2003- Present
- Skills USA – Present
- First Robotics Competition- 2014- Present

Summer Student Enrichment Activities:

- Think It. Design It. Create It Camp - July 2021
- MAGIC – Workforce Girls in Construction Camp Co-Instructor VWCC – 2014-2016
- Mechatronics Camp Instructor VWCC - 2013-2017
- Robotics Camp Co-Instructor VWCC - 2011-2012
- STEM Preschool Community Activities, Salem, VA – 2013-2015
- Girl Scout Summer Retreat STEM instructor (ages 6- 12), Roanoke, VA 2014

Certifications:

- Siemens Level 1 Instructor Mechatronics Certificate
- Sports Nutrition Trainer Certificate
- Personal Fitness Trainer Certification
- Stress Reduction, Relaxation and Meditation Instructor Certification
- AutoCAD - Brainbench
- Adobe Photoshop CS4
- Drone Pilot License - Part 107

Volunteer Experience:

- Green Hill Baptist Church – Church Planting Team
- TSA Judge for student competitions
- SkillsUSA State Judge for student competitions
- FCA (Fellowship of Christian Athletes) Leader at Andrew Lewis and Glenvar Middle School
- Weekly Women's Bible Study Facilitator
- Mission Trips through the Virginia Baptist Mission Board
- Erie, Pennsylvania – Church Construction, 2007, Vienna, Austria – Children's English Camp, 2004
- Curitiba, Brazil – Church Construction, 2003, Salzburg, Austria – Religious Freedom, 2002
- Special Olympics Bowling Team Volunteer, 2002-2003

Mechatronics Experience:

▪ E2T NSF Grant Participation - 2012-2013

- Developed Website for Grant
 - <http://e2tgrant20132014.weebly.com/>
- Implemented PBL activities in the classroom
- Presented at the STEM Summit at Virginia Tech
- Participated in Industry Tours
 - Spectrum Designs
 - Dynax
 - Gala Industries
 - Elizabeth Arden
 - Plastics One
- Attended Hi-Tec Conferences
 - Denver, Colorado
 - Austin, Texas
- Attended Manufacturing Summer Institute
 - Greenfield Center – August 2012
 - Greenfield Center – August 2013
- Mechatronics Middle School Camp Instructor

▪ PACE ME NSF Grant Participation -2013-Present

- Implemented Tooling U and mentored other Salem Teachers on Tooling U Implementation
- Implemented Mechatronics PBL activities in classroom
- Attended Hi-Tech Conferences
 - Austin, Texas
 - Portland, Oregon
- Co-sponsored Manufacturing Day Tour with Grant Industry Liaison for Robotics and T&I Students
 - RR Donnelley
 - Mersen
- Participated in Industry Tours
 - Stihl
 - Gearbox Manufacturer
 - Dynax
 - McAirmaid
 - Metalsa
 - Cardinal Glass
- Attended Manufacturing Summit
 - VWCC – 2013-2017
- Attended Manufacturing Summer Institute
 - VWCC
 - Tidewater Community College
- Mechatronics Middle School Camp Instructor
- Developed Salem City Schools Teacher Professional Development
 - VWCC FABLAB
 - Industry Tours – LSC Communications & Medeco
- Siemens Level 1 Instructor Training
 - LaVergne, TN June 2016
 - Obtained Siemens Level 1 Instructor Training Certificate