



Dr. Brent Hollers

Instructional Technologist
STEM Educator
Curriculum Developer



404-227-1778



drhollers@gmail.com



brenthollers.com



brent-hollers

Academic History

Present Rank: CTAE Teacher of Computer Science, Adjunct Professor of Workforce Education

School: Sequoyah High School, Canton, GA

Assignment: 100% Classroom Instruction

Degrees

Doctor of Philosophy in Workforce Education; University of Georgia

Degree conferred, May 2016. Dissertation: *Incorporating Engineering Design in The Technology Education Classroom Through Action Research*

Master of Arts in Teaching; University of West Georgia

Degree conferred, July 2013.

Bachelor of Business Administration; North Georgia College and State University

Degree conferred, December, 2006.

Certifications

Educational Leadership Certification	2020 - Current
Microsoft Office Specialist Master	2019 - Current
Microsoft Certified Innovative Educator	2019 - Current
Certified Teacher in the State of Georgia, Bus. Ed, Comp. Sci	2006 - Current
Google Certified Trainer	2016 - Current
Raspberry Pi Certified Educator	2018 - Current

Awards

- ✧ 2019 - GISA Master Teacher
- ✧ 2018 - Gerald F. Day Excellence in Authorship Award for "Top Peer-Reviewed Article by a Classroom Teacher.", Technology and Engineering Teacher
- ✧ 2016 - ACTER 2016 Conference Outstanding Ignite Presentation
- ✧ 2015 - Phil Gray Memorial Scholarship for Engineering and Technology Education, University of Georgia

Related Positions

University of Georgia, Athens, GA

Adjunct Professor

2018 - Current

Teaching and redesigning curriculum for Workforce Education department.

Courses focused on technology integration, research methods, and online learning.

Sequoyah High School, Canton, GA**Computer Science and Engineering Teacher****2019 - Current**

Developing and implementing content in the Computer Science pathway including drone education, new Computer Science curriculum, and new Web Design curriculum. Developed outreach opportunities for students to design professional content for local businesses.

Sequoyah High School, GA**Robotics Team Head Mentor****2019 - Current**

Founded and continue to head a competition robotics team that has won numerous awards and consistently has approximately 30 team members with a high percentage of female and minority participation.

Sequoyah High School, GA**Interact Club Founder****2019 - Current**

Founded an interact club that works with the robotics team to complete service projects. Students have presented at the local Rotary meetings and have worked to obtain scholarships and grants for the program.

Sequoyah High School, GA**Enabling the Future Founder (E-Nable)****2019 - Current**

Created an E-Nable chapter as a way for students to design and 3D print prosthetic fingers, hands, and arms for people in need across the world. This project has received multiple grants and has sent prosthetics to locations as far away as Algeria and China. This program has garnered national attention through articles by CNN, the Atlanta Journal-Constitution and other media outlets.

Sequoyah High School, GA**Go Baby Go Founder****2019 - Current**

Created a Go Baby Go chapter to allow students to develop and build mobility carts for disabled children for the purposes of allowing them to interact with their peers. Through this program, students developed an entirely open-source platform for building such carts using readily available commercial and 3D printed products.

Blessed Trinity Catholic High School, Roswell, GA**Computer Science and Engineering Teacher****2013 - 2019**

Developed computer science and engineering curriculum, created engineering pathway and related courses.

Blessed Trinity Catholic High School, Roswell, GA**Business and Technology Education Department Head****2018 - 2019**

Developed multiple pathways based on student interest, managed department staff and budget.

Blessed Trinity Catholic High School, Roswell, GA**Technology Integration Specialist****2013 - 2019**

Developed training materials, scheduled teacher training, helped implement technology in teacher classrooms. Also assisted in implementation of one-to-one technology program in school as well as in development of technology policies.

Blessed Trinity Catholic High School, Roswell, GA**Robotics Team Head Mentor****2012 - 2019**

Started and continue to head a US FIRST FRC and FTC level competition robotics teams. This program helps students learn how to apply STEM and business concepts as an after school program.

Blessed Trinity Catholic High School, Roswell, GA**Broadcast Team Head Mentor****2014 - 2019**

Started and continue to head a group of students who live broadcast various sporting events in the Fall, Winter, and Spring. This team provides students with the opportunity to learn about new technologies and careers in broadcast media.

Resident Instruction and Continuing Education

Course: US Innovative Climate

University of Georgia: A course focusing on current innovations in manufacturing, technology, and systems. This project-based course teaches how to create innovation in the workforce and in the classroom.

Taught: Fall 2020

Course: Technology for Education in the Workplace

University of Georgia: A course focusing on the integration and utilization of technology tools in workforce education environments.

Taught: Spring 2019, 2020

Course: Theory and Practice for Web-Based Instruction in Workforce Education

University of Georgia: A course focusing on online teaching pedagogy, research, and technology tools that can be applied to online courses.

Taught: Fall 2018, 2019

Course: Introduction to Digital Technology

Sequoyah High School: An introductory computer science course that introduces digital citizenship, block-based coding, and drones.

Taught: 2019-Current

Course: Digital Design

Sequoyah High School: A second year web design course focused on Adobe Photoshop®, Adobe Illustrator®, HTML, CSS, and JavaScript.

Taught: 2020-Current

Course: Business Communications

Blessed Trinity Catholic High School: A third year course teaching advanced business, finance, and personal finance principles while assisting students in achieving industry certification in Microsoft PowerPoint®, Microsoft Excel® Expert, and Microsoft Word® Expert

Taught: 2019-Current

Course: Business and Technology

Blessed Trinity Catholic High School: A second year course focused on business principles as well as achieving industry certification in Microsoft Excel® and Microsoft Word® products.

Taught: 2019-2020

Course: CAD and Engineering (Online Course)

Blessed Trinity Catholic High School: A project based course focused on the principles of design and manufacturing using CAD and CAM software.

Taught: 2018-2019

Course: Advanced Placement (AP) Computer Science

Blessed Trinity Catholic High School: A college level course which teaches the fundamentals of computer science through programming in the Java language. Certified by the College Board to teach this course.

Taught: 2015-2016, 2018-2019

Course: Introduction to Engineering

Blessed Trinity Catholic High School: A project-based course designed to introduce students to the engineering design process and the various engineering disciplines including mechanical, civil, electrical, software, and chemical engineering. This course culminates in a student-directed engineering challenge based on the sustainable goals delineated by the United Nations.

Taught: 2016-2018

Course: Introduction to Robotics

Blessed Trinity Catholic High School: A course designed as an introduction to programming, problem solving, and engineering design. Developed course curriculum, syllabus, and all related course materials. New course.

Taught: 2011-2015

Course: Robotics Team

Blessed Trinity Catholic High School: A course emphasizing the various aspects of engineering design and business planning through a competition robotics team. Developed course curriculum, syllabus, and all related course materials. New course.

Taught: 2015-2018

Course: Business and Computers

Blessed Trinity Catholic High School: A course which taught basic computer skills and introductory business concepts. Developed course curriculum, syllabus, and all related course materials. New course.

Taught: 2011-2012

Course: Computer Systems

Blessed Trinity Catholic High School: A freshman-level course designed to provide an overview of basic technology concepts and to teach the use of office productivity software. Revised course curriculum syllabus and course materials with the assistance of other teachers. Required for graduation.

Taught: 2007-2011

Course: International Business and Entrepreneurship

Blessed Trinity Catholic High School: A upperclassman emphasizing the role of international business, the global economy, and entrepreneurship as well as the development of a business plan. Revised course curriculum syllabus and course materials with the assistance of other teachers.

Taught: 2011-2018

Scholarly Activities

Publications

2018: Book Contribution (Voices of Experience)

Integrating Technology in the Classroom: Digital Tools to Meet the Needs of Every Student by Boni Hamilton

2017: Documenting the Engineering Design Process,

Technology and Engineering Teacher, October 2017

2016: Integrating the Engineering Design Process in the Technology Education Classroom.

Published Doctoral Dissertation, University of Georgia

Workshops

2020: Field of Dreams: Drones in Education

Teacher in-service demonstrating the STEM integration of drones in the classroom

2018: Integrative STEM Activities for every Classroom

Teacher in-service delivered for the Archdiocese of Miami

2017: “A Simplified Method for Action Research and Teacher Certification”

Workshop delivered for Georgia Independent School Association

2017: *Technology and Engineering Summer Institute at Kennesaw State University A.T.O.M.S Center*

Created/Delivered 40 hours of teacher professional development on Technology and Engineering Education

Presentations

2017: “Portfolios and Project-Based Learning with the New Google Sites”

Presentation at Georgia Independent School Association Conference

2017: “Integrating Engineering and Technology in the Classroom”

Presentation at Georgia Independent School Association (Metro Atlanta Conference)

2017: “Action Research for PLCs”

Presentation at Georgia Independent School Association Conference

2017: “Integrating Action Research in Professional Learning Communities”

Presentation at Archdiocesan Principal’s Meeting

- 2016:** *"Integrating the Engineering Design Process in the Technology Education Classroom"*
Poster Presentation at Association for Career and Technical Education Research Conference
- 2016:** *"Action Research as a Means for Teacher and Student Improvement"*
Ignite Presentation at Association for Career and Technical Education Research Conference
- 2016:** *"Action Research in the Classroom"*
Guest Speaker at Georgia Independent School Association Annual Conference
- 2016:** *"Utilizing Action Research as a means for Practice Improvement"*
Poster Presentation at Action Research Network of the Americas Annual Conference
- 2015:** *"Implementing Google Classroom"*
Guest Speaker at Georgia Independent School Association Annual Conference
- 2013:** *"Inspiration through Robotics"*
Guest Speaker at Georgia Independent School Association Annual Conference
- 2012:** *"Do you Moodle?"*
Guest Speaker at Georgia Independent School Association Annual Conference

Scholarly Service

- **2019-2020:** GISA First Annual Robotics Competition Designer and Developer
- **2019-2020:** Enabling the Future chapter creator and president
- **2019-2020:** Rotary International / Go Baby Go! chapter creator and president
- **2019:** Standards for Technology and Engineering Literacy (STEL) reviewer
- **2018-2019:** Tiny Home Build Coordinator and Volunteer
- **2018:** ISTE STEM PLN playground volunteer, ISTE Annual Conference
- **2017:** Book Reviewer

Memberships

Association for Career and Technology Education
Atlanta Area Technology Educators
Georgia Association for Career and Technical Education
Georgia Independent School Association
International Society of Technology Educators
National Business Educators Association