

“A loving heart is the beginning of all knowledge.”
Thomas Carlyl

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Professional Profile

Eager to increase access statewide to STEM educational practices that are rigorous, relevant and problem based, specifically reaching populations that are underserved and underrepresented.

- Masters Degree in Integrative STEM Education curriculum and instruction from Virginia Tech
- 13 years of experience in K-12 Education
- Initiated VA STEM Learning Network Strategic Planning Committee
- K-12 STEM Coordinator for Harrisonburg City Schools 2011-Current
- STEM Coordinator for Malcolm X Elementary School DC Public Schools 2010-2011
- NASA SEMAA Site Director for Martinsville City Schools from 2005-2010

Honors

Programs that Work 2016: Middle School STEM Explorations Academy

Virginia Math and Science Coalition

Magma Award 2014

VA School Board Association

Middle School Technology Program of the Year 2014

Virginia Technology Engineering Educators Association

Nominee for Shenandoah Valley Tech Council

Innovations in Education Award 2013, 2014

Programs of Innovation award

Virginia Tech 2013

Above and Beyond Award

Harrisonburg City School 2012

NASA Pipeline Award

Annual Site Directors Meeting 2007

Published Works and Presentations

- VASCD 2016: The Virginia STEM Learning Network: A Catalyst for Advancing Virginia's New Economy
- U.S New and World Report STEM Solutions Conference 2016: Integrative STEM education panel
- ITEEA 2016: K-12 STEM education panel
- Children's Engineering Conference 2016: PBA and STEM a perfect fit
- JMU STEM Conference 2016: PBA and STEM a perfect fit.
- VT STEM Summit 2015: VA STEM Learning Network Roundtable
- VAST, Roanoke VA 2015: May the Force be with you, A look at a K-5 Integrative STEM unit
- Virginia STEM Learning Network: Harrisonburg, Danville, Hampton 2014-2015
- VSUP, Williamsburg VA 2014: Road map to STEM Education
- VSBA 2014: Harrisonburg City Schools PK-12 Pipeline
- Regional CTE meeting 2014: Growing STEM in HCPS
- Virginia Association of School Superintendents Hampton 2014: VA STEM Learning Network
- NSTA STEM Boston 2014: Wacky Weather
- ITEEA Ohio 2013: Hook them early with I-STEM
- Science and Children, October 2013: Wacky Weather, An integrative science unit combines science content on severe weather with the engineering design process.
- Reviewer of K-12 STEM Education: Status, Prospects, and an Agenda for Research
- Shenandoah Valley Technology Council and Secretary Fornash 2012: Planning and Developing a Strategic STEM Pipeline
- NSTA STEM, Atlantic City 2012: Integrative STEM Education; A model in Action

Key Qualifications

- Leader and advocate for STEM education in the Commonwealth
- Active in the science and technology education communities
- Connected statewide with multiple STEM leaders, educators and business and industry partners
- Innovator that continuously seeks professional growth through new and challenging tasks
- Created and implemented a model K-5 I-STEM educational program and curriculum that reaches **all** K-6 students in HCPS
- Created a exemplary middle school 7th and 8th grade STEM Explorations Academy
- Collaborated in the creation of the Harrisonburg High School Governor's STEM Academy
- Created and managed annual STEM day event with over 65 STEM exhibits and 2000 participants
- Facilitate curriculum development for thematic STEM units
- Coordinate school and STEM budgets in support of STEM programs
- Coordinate and plan family nights and work with community non profits to support the school
- Support the Superintendent and principals in their efforts to decrease the achievement gap
- Directed a SEMAA site as part of National project to expose more students to STEM
- Managed the Aerospace Education Laboratory conducting lessons to SEMAA students and outreach to the community
- Manage and Maintain quarterly and yearly budget for SEMAA site Operations
- Initialized and implemented K- 5 SEMAA program over 3 year period to introduce an additional 800 students a year to STEM related courses
- Summer Space Camp Director responsible for per curing staff, training and overseeing camp during a two week span
- Responsible for quarterly performance reports to the National SEMAA office in content, diversity, partnerships and sustainability, continuity, relevance and evaluation
- Initiated and Implemented Community wide Earth Science week event at Martinsville Speedway where Martinsville and Henry County schools could come together and celebrate science in various ways

Education and Certifications

M.S. Ed Integrative STEM Education

Curriculum and Instruction

Virginia Tech 2012

Integrative STEM Ed Graduate Certificate

Virginia Tech (2011)

B.S. Elementary Education Pre-K-6 (Certified PK-6 Elem. Education)

Old Dominion University

First Lego League Robotics Coach

2006-2015

NASA Explorer Schools Lead

2007-2010

Employment

STEM Coordinator PK-12, Science Coordinator PK-5

Harrisonburg City Schools

2011-Present

STEM Coordinator and Technology Coordinator for Malcolm X Elementary School

District of Columbia Public Schools

May 2010-2011

NASA SEMAA Site Director and Lead teacher

Martinsville City Schools Grades K-8

2005-2010

6th grade Science teacher

Martinsville City Schools
2003-2005

NASA Explorer Schools Lead

2006-2010

- **Presenter National Directors meeting**
Virtual training and meeting for AEL
2008
- **Summer SEMAA Space Camp Director**
Procure, train and oversee summer staff
2006-2010

Professional Affiliations

National Science Teachers Association
Virginia Science Leaders Association
Virginia Association of Science Teachers
STEM Education Coalition
Triangle Coalition for STEM Education
American Association for the Advancement of Science
Association for Supervision and Curriculum
International Technology and Engineering Association
American Institute of Aeronautics and Astronautics
Virginia Museum of Natural history educational advisory board 2005-2010

References:

Dr. Scott Kizner
Superintendent of Harrisonburg City Schools
540-434-9916

Mrs. Anne Loso
HCPS Math Coordinator
540-908-8538

Mr. Todd Lynn
Shenandoah County Schools
540-560-4517
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