



## Troy Cline

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### Summary

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**Senior Technology Integration Specialist** with more than 12 years of experience in the design and development of award-winning and internationally recognized NASA Education and Public Outreach (EPO) programs. Acquired current position based on an extensive background in educational technology, cross-cultural classroom instruction and project management. Responsibilities include planning, coordinating, implementing, and managing the education and public outreach activities for NASA's Magnetospheric Multiscale (MMS) mission, Sun-Earth Days and Space Weather Action Center programs. Additional experience includes project management, product development, digital fabrication, collaboration and social networking, podcasting/vodcasting, public speaking, workshop coordination and graphic design.

### Honors

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***10 NASA Group Achievement Awards, NASA***

These awards were given to the Sun-Earth Connection Education Forum in recognition of its outstanding accomplishments made through the coordination of many individual efforts and its substantial contributions to the accomplishment of NASA's Sun-Earth Connection mission.

***The National Technology Leadership Initiative (NTLI) Award, Association for Science Teacher Education (ASTE)***

Awarded by the Association for Science Teacher Education (ASTE) for the top technology paper submitted annually. This paper described the development of a new digital fabrication education project developed through a partnership between NASA's MMS Mission and James Madison University (JMU).

***Software Development Award, Technology and Learning Magazine***

Co-creator in the development and design of organizational and management-based software program, 'Foundations for Education'. The Enterprise School was named one of the 'Top 50 Model Schools' in the nation by Technology and Learning Magazine (1998).

***The Pirelli International Award, Pirelli & C***

Co-creator in the development and design of NASA's Sun-Earth Media Viewer. This Pirelli award is the world's first Internet multimedia award aimed at the diffusion of scientific and technological culture worldwide.

***Peer Award, SP Systems***

Awarded for keeping NASA ahead of the curve with ventures into educational technology

***2004 Education and Public Outreach Award, NASA***

Co-creator of the Student Observation Network (SON): developed for NASA to involve students in the discovery of NASA's Sun-Earth missions through and innovative technology application program.

## Experience

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NASA Goddard Space Flight Center, Greenbelt, MD

### **Senior Technology Integration Specialist, 2000 to Present**

Provide ongoing educational technology support to NASA's Heliophysics outreach programs

#### **Education and Public Outreach Mission Lead: 2010-Present**

[NASA's Magnetospheric Multiscale (MMS) Mission]

#### **Sun-Earth Days Project Lead: 2004, 2005, Co-lead: 2001-2003, 2006-Present**

[NASA's Sun-Earth Days Program]

#### **Project Co-lead: 2004-Present**

[NASA's Space Weather Action Center and NASA's Student Observation Network]

- Create and execute a public outreach plans and strategies for Heliophysics education programs with the assistance of Program Scientists, Principal Investigators, Project Scientists, and Project Managers, and in coordination with education team leads.
- Develop and implement STEM education programs that motivate and instill passion in learners towards chosen fields of study.
- Coordinate the development and/or maintenance of education and public outreach websites. Ensure the development of NASA website evaluation instrument and ongoing review process for all NASA educational websites.
- Collaborate with team leads and partners in writing, designing, constructing, and editing compelling public outreach materials for a variety of media.
- Develop social media outreach strategies and integration.
- Develop and produce podcasts (audio/video) and webcasts (hosting and voice-overs).
- Coordinate educational efforts to reach underserved and underutilized groups.
- Design, develop, and conduct education workshops for formal, informal, and community-based audiences.
- Represent E/PO programs at professional conferences, meetings, and committees as appropriate.
- Provide guidance to mission scientists interested in conducting educational activities in the classroom environment and/or informal setting.
- Ensure alignment of formal education activities with the National Science Education Standards and NASA requirements.

The Enterprise Alternative High School, Vienna, VA

### **Technology Coordinator, 1996 to 2000**

Responsible for creating, implementing, and managing overall technology-based programs and decisions

- Coordinated the development of a technology team, strategic management plan, and computer network
- Created and maintained school website, web-based presentations, and on-line training
- Developed plan/outline for computer lab and summer distance learning program
- Selected most appropriate maintenance management system at reasonable cost for technical operations

The Enterprise Alternative High School, Vienna, VA

**Academic Coordinator, 1996 to 1997**

Liaison between base school formal educators and alternative school system

- Ensured that aims, goals and objectives were accomplished in accordance with outlined priorities, time limitations, and funding
- Provided support in coaching, counseling, and aiding staff members in making academic and technological decisions

The United States Peace Corps, Chad, Africa

**Peace Corps Volunteer, 1992 to 1993**

Responsible for educational development in mathematics

- Project lead in the development of a French/English mathematics database consisting of proven lesson plans and educational methodologies
- Received intensive training in the following areas: Chadian history, culture, politics, educational institutions, French and technical skills

The Enterprise Alternative School, Vienna, VA

**Teacher, 1994 to 2000**

Responsible for the integration of math instruction in a therapeutic environment for behavior problem and/or truant adolescents

- High School Mathematics Teacher: Algebra I, Algebra II, Geometry, Trigonometry, Technology Applications

Tse Ho Tso Middle School, Window Rock, AZ, Navajo Indian Reservation

**Teacher, 1993 to 1994**

- Middle School Social Studies Teacher: Grade 8

Bureau of Indian Affairs, Ganado, AZ, Navajo Indian Reservation

**Teacher, Substance Abuse Coordinator, 1989 to 1992**

Served as fourth and fifth grades (multi-subject) teacher, music (K-6) teacher, Substance Abuse Coordinator (K-6)

- Team leader on Task Force created to prepare school for NCR (North Central Accreditation) in the following areas: curriculum development, scope and sequence, philosophy, safety.

## Education

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**M.A., Educational Technology and Leadership, 1999**

The George Washington University, Washington DC

**B.S., Education (K-8), Minor: Mathematics, Specialization (5-8), 1989**

West Virginia University, Morgantown, WV

Summa Cum Laude

## **Additional Skills**

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- Graphic Design: web, print
- Online Collaboration: Basecamp, Skype, WebEx
- Social Networking: Facebook, Twitter, Pinterest, YouTube, Flickr, Instagram
- Podcasting: development, production, editing, voice-overs
- Digital Fabrication: 2D/3D STEM development
- Public Speaking: formal and informal audiences

## **Professional Memberships**

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American Geophysical Union  
Astronomical Society of the Pacific  
International Education Technology Association  
National Council of Teachers of Mathematics  
National Science Teachers Association

## **Personal Interests**

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- Digital art and graphic design, oil painting, music (piano, voice), podcasting, voice-overs, cross-cultural work, travel

## **References**

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Available upon request