

Kevin G. Sutton

Curriculum Vitae

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Doctoral Student
Graduate Teaching Assistant
North Carolina State University

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Last update: May 2016

Education

Graduate Certificate - Integrative STEM Education, Virginia Tech (2013)

MAEd - Curriculum and Instruction, Virginia Tech (2013)

BS - Technology Education, North Carolina State University (2012)

Minor - Graphic Communications, North Carolina State University (2012)

Professional License

State of North Carolina Professional Educator's License (7/2012-6/2015)
Technology Education (6-12)

Teaching Experience

TDE 205 - Desktop Publishing and Digital Imaging
(Fall 2013, Spring 2014, Fall 2014, Spring 2015, Fall 2015, Spring 2016, Summer 2016)

NC State - Instructor of Records

TDE 230 - Scientific and Technical Visualization
(Spring 2014, Spring 2015, Spring 2016)

NC State - Instructor of Records

GC 340 - Website Development
(Fall 2014, Fall 2015)

NC State - Instructor of Records

GC 250 - Architectural Graphic Communications
(Spring 2016)

NC State - Instructor of Records

Introduction to 3D Printing Training
NC State – Technology Training Solutions Instructor (2015 - present)

Scientific and Technical Visualization
(Spring 2012)
Panther Creek High School - Student Teacher

Research Experience

Graduate Research Assistant (8/2012-5/2013)
Virginia Tech – Supervised by: Dr. Jeremy Ernst

Research Associate (5/2015-8/2015)
NC State – Supervised by: Dr. Aaron Clark

Software Experience

AutoDesk

3D Studio Max

AutoCad

Inventor

Other Modeling Software

SOLIDWORKS

Trimble Sketchup

Tinkercad

Microsoft

Word

Excel

PowerPoint

Adobe

Illustrator

Photoshop

InDesign

Slicing Software

Catalyst

Makerbot Desktop

Cura

M3D

Professional Memberships

American Educational Research Association (2015-present)

American Society for Engineering Education (2015-present)

Epsilon Pi Tau Honor Society (2012-present)

International Technology and Engineering Educators Association (2012-present)

Southeastern Technology Education Conference (2013-present)

Publications

Ernst, J. V., Williams, T. O., Clark, A.C., Kelly, D. P. & Sutton, K. (under review). K-12 STEM educator autonomy: An investigation of school influence and classroom control. *Journal of STEM Education*.

Sutton, K., Grubbs, M., & Ernst, J. (2014). Design Under Constraints: Cell Phone Case Design Challenge. *The Technology Teacher*, 74(2), 12-17.

Swinson, R. Clark, A. C., Ernst, J. V., & Sutton, K. (2016). Design, Test, Redesign: Simulation in Technology, Engineering, and Design Education Classrooms. *The Technology Teacher*, 75(7), 8-12.

Swinson, R. Clark, A. C., Ernst, J. V., & Sutton, K. (2016). New Roles for Project Design Engineers. *The Technology Teacher*, 75(8), 8-12.

Sutton, K. G., Busby, J. R., Kelly, D. P. (In Press). Multicopter Design Challenge. *The Technology Teacher*.

Conference Presentations

Sutton, K. G., & Busby, J. R. (2016). Bringing Programming to Life With Quadcopters. Presented at the International Technology and Engineering Educators Association 2015 Annual Conference, Washington, D.C.

Busby, J. R., Sutton, K. G., Fahrer, N., & Manusos, D. (2016). Integrative STEM: Developing a unit. Presented at the International Technology and Engineering Educators Association 2015 Annual Conference, Washington, D.C.

Sutton, K. G. (2016). Quadcopters. Presentation at the International Technology and Engineering Educators Association STEM Showcase, Washington, DC. (*Demonstration*)

- Kelly, D., Sutton, K., Clark, A., Ernst, J. (2015). Flipped instruction for technology and engineering educators. Southeastern Technology Education Conference, Nashville, TN. (*Research Presentation*)
- Denson, C., Sutton, K. (2015). Structuring engineering design challenges. Southeastern Technology Education Conference, Nashville, TN. (*Research Proposal*)
- Sutton, K. (2015). The implications of 3D printing on design in K-12 STEM education. North Carolina State University STEM Education Research Symposium, Raleigh, NC. (*Poster Presentation*)
- Busby, J. R., & Sutton, K. G. (2015). Assessing activities: Insuring intentional instruction. Presented at the International Technology and Engineering Educators Association 2015 Annual Conference, Milwaukee, WI. (*Demonstration*)
- Sutton, K. G. (2015). Teaching informed design with quadcopters. Presentation at the International Technology and Engineering Educators Association STEM Showcase, Milwaukee, WI. (*Demonstration*)
- Sutton, K. G., & Busby, J. R. (2015). Teaching informed design with quadcopters. Presentation at the International Technology and Engineering Educators Association 2015 Annual Conference, Milwaukee, WI. (*Demonstration*)
- Sutton, K., Busby, J. (2014). Enhancing Mental Rotation Abilities with Multirotor Flight: A Study Proposal. Southeastern Technology Education Conference, Boone, NC. (*Research Proposal*)
- Sutton, K., Grubbs, M. (2014). 3D Printing Cell Phone Design Challenge. International Technology Engineering Education Association 76th Annual Conference, Orlando, FL. (*Demonstration*)
- Sutton, K. (2013). Mental Rotation Instrumentation for STEM Education. Southeastern Technology Education Conference, Raleigh, NC. (*Research Presentation*)

Awards

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Excellence in Classroom Teaching, North Carolina State University Graduate Student Association (3/2016)

Outstanding Member Award for service and leadership in Epsilon Pi Tau, North Carolina State Education Council (3/2016)

William Warner 2106 Graduate Student Research Award, Epsilon Pi Tau (2/2016)

Epsilon Pi Tau Robert & Marilyn Wenig Scholarship, North Carolina State University College of Education (8/2014)

Donald Maley Spirit of Excellence Outstanding Graduate Student Citation, International Technology and Engineering Educators Association (3/2014)

Outstanding Senior Award in Technology Education, North Carolina State University College of Education (5/2012)

Leadership

International Technology and Engineering Educator's Association 2015 - 2016
Twenty-first Century Leadership Academy Cohort (3/3015 – 3/2016)

President Epsilon Pi Tau (International Honor Society for Technology)
(9/2013 - 8/2014)

Treasurer Epsilon Pi Tau (International Honor Society for Technology)
(9/2011 - 5/2012)

Service

Graduate Student Representative for the College of Education-Education & Technology Fee Committee (8/2013-present)

Member College of Education Graduate Student Advisory Board (11/2013 – 5/2015)

Regional Robotics Judge, Technology & Engineering Educators Collegiate Association. Virginia Beach, VA. (11/2014)

Regional 3D Poster Session Judge, Technology & Engineering Educators Collegiate Association. Virginia Beach, VA. (11/2013)

State Level Scientific and Technical Visualization Event Coordinator, Technology Student Association. Greensboro, NC. (3/2014, 3/2015)

International Technology and Engineering Educator's Association STEM Center for Teaching and Learning: Assessment Writer's Forum, Blacksburg, VA. (8/2012)

Conferences Attended

International Technology and Engineering Educators Association's 78 Annual Conference, Washington, DC. (3/2016)

Southeastern Technology Education Conference, Nashville, TN. (11/2015)

The Mississippi Valley Technology Teacher Education Conference, Nashville, TN. (11/2015)

American Educational Research Association Annual Meeting, Chicago, IL. (4/2015)

International Technology and Engineering Educators Association's 77 Annual Conference, Milwaukee, WI. (3/2015)

Southeastern Technology Education Conference, Boone, NC. (10/2014)

International Technology and Engineering Educators Association's 76th Annual Conference, Orlando, FL. (3/2014)

Southeastern Technology Education Conference, Raleigh, NC. (10/2013)

International Technology and Engineering Educators Association's 75 Annual Conference, Columbus, OH. (3/2013)

Southeastern Technology Education Conference, Nashville, TN. (10/2012)

The Mississippi Valley Technology Teacher Education Conference, Nashville, TN. (10/2012)

North Carolina Technology Student Association State Conference, Greensboro, NC. (3,2012)(3/2014)(3/2015)

Technology and Engineering Education Collegiate Association Eastern Regional Conference, Virginia Beach, VA. (11/2011)(11/2013)(11/2014)(11/2015)