

Randy Brooks

Technology Infused Educator

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Career Profile

23-year telecom industry veteran in the 7th year of refocusing passion and experience as a Secondary Math and Engineering educator...igniting and engaging the curiosity of students through multimedia tools... accelerating abilities of instructors to better connect with their digital natives, with a particular emphasis on STEM subjects, driven by significant experience in real-world application and project management...special focus on creating curriculum guiding both instructors and students to operate in the digital world, which is quickly evolving before us.

Core Competencies

- Daily engagement with digital natives for instruction and assessment of impact.
 - Interest in and drive to propel an educational 'webolution' leading to quality online coursework, classes, and support.
 - Lesson production with an eye toward delivering and receiving products digitally.
 - Vision to rebuild curriculum & instruction in the digital realm.
 - Great interest in taking the 'Flipped Classroom' from the current fad to the future in the form of quality, online, student-centered lessons.
 - Extensive experience training telecom industry personnel.
 - Technical career focused on developing and applying mathematical concepts in business and engineering environments.
 - History of working with kids in high school environment, VBS, academic and sports teams, church activities, and school volunteer opportunities.
 - Use of organizational and creative writing talents to support production of effective bridges between procedural and conceptual lessons.
 - Proven ability to work with management and peers to focus teams on priorities.
 - Adept at assessing knowledge level of audience for use in creating effective instruction.
 - Engaged in STEM promotion as both a PreCalculus and PLTW Engineering instructor.
 - Pursuing quality online engineering tools as Research Experiences for Teachers (RET) participant with the Texas A&M Computer Science Sketch Recognition Lab (TAMU SRL).
 - Commitment to development of tools and training to improve the college and life readiness of our graduating high school seniors.
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Relevant Education Industry Instruction Experience

High School Mathematics and PLTW Engineering Educator

Lovejoy High School, Lovejoy ISD, Lucas, Texas 2010 - Future

- HEB Rising Star Finalist in 2014 and Rising Star Semi-Finalist in 2016.
- On track to complete Purdue Learning Design and Technology Masters work in May 2017.
- Pursuing instruction qualifications for the AP Computer Science Principles course by Fall 2017.
- Customizing and delivering instruction in PreCalculus and PLTW Principles of Engineering.
- Lovejoy High School Web manager.
- Presented on Flipped Classrooms at Learning@Lovejoy PD Summer 2012 and Summer 2013.
- Presented on Flipped/Blended/Online Classrooms at TCEA in 2014 and 2015.
- Texas PTA Honorary Life Membership, 2015

Texas A&M University, Computer Science & Engineering

Sketch Recognition Lab (SRL)

Research Experiences for Teachers (RET) Program

College Station, Texas 2015 - Future

- Presented on TAMU SRL tool, Mechanix, at 2016 CPTTE at Brown University, 2016 PLTW Summit in Indianapolis, and 2016 PLTW-Texas Convention in Houston.
- Expert user testing, field testing in my high school STEM lab, and development consulting regarding an online tool (TAMU SRL Mechanix) supporting vector, free-body diagram, and truss analysis by providing real-time constructive feedback for learners and performance metrics for instructors.

Mathematics/ACT Tutor

Tutoring101 2014 - Future

- Staff tutor preparing students for the Math portion of the ACT College Entrance Exam.
- Staff tutor providing 1:1 math guidance for a wide demographic of students ranging from 4th grade to PreCalculus.

InfuseUs.com 2009 - Future

- Self-initiated website devoted to support educators in the engagement of the Digital Natives as well as supports for the Digital Natives.
 - Offerings include links, samples, and direction regarding portals providing benefit for today's in-classroom instruction as well as migration to digitally-based, online instruction.
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Relevant Telecom Industry Instruction Experience

Telephone Product Launch

Charter Communications, 2005-2009

- Delivered training to various cable network personnel regarding the operation and deployment strategy of a new product (telephone) on the cable network.
- Assessed technical/product knowledge of various departments and tailored training content to be most effective.

Traffic Engineer Curriculum Development and Delivery

Vartec Communications, 2000-2005

- Developed and delivered curriculum to reinforce the procedural needs of traffic engineers and to clearly tie those activities to the conceptual requirements of the position.
- Joined Vartec with no training structure in place and developed and delivered a program to educate and promote team members.

Traffic Engineer and Planner Training, MCI Communications

1986-2000

- Built templates used for traffic engineering and trained teams and management on their use.
 - Worked closely with outside vendor to tailor a procedural program to better match the conceptual needs of the organization, and served as Subject Matter Expert (SME) during delivery.
 - Provided myriad trainings to direct reports, peers, and upper management regarding new network deployments and procedural adjustments and impacts.
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Telecommunications Professional Experience

Manager, Telephone Operations

2005-2009

Charter Communications

- Served as in-market Project Manager and Subject Matter Expert (SME) for deployment of Local Telephone Service on the Charter Communications cable plant in Fort Worth, Texas.
- Managed team addressing video theft.

Sr. Director Switched Network Engineering

2000-2005

Vartec Telecommunications

- Specifically brought to Vartec to create the Network Planning, Traffic Engineering, Network Optimization, and Project Implementation departments to manage the high growth at this mid-tier telecom provider with a 23 switch network.
- Recruited and trained members of the organization.

Manager, Switch Engineering & Planning

1992-2000

MCI Telecommunications

- Planned and managed the 85+ switched network.
- Developed, implemented, and administered training for monitoring/planning tool enhancements.

Traffic Engineer and Team Lead

1986-1992

MCI Telecommunications

- Regional Project Manager for implementing MCI's first SS7 interconnection with a LEC (BellSouth).
- Developed the template employed by traffic engineering peers at MCI for monitoring and managing capacity on the myriad Local Telephone interconnection trunks.

Education

Texas A&M University, B.S. Engineering Technology – Telecommunication Specialty 1986

Purdue University, M.S. Learning Design and Technology (LDT) – Planned completion May 2017

Development/Leadership/Awards/Community

- April 2016 presenter regarding 'TAMU SRL Mechanix' at CPTTE at Brown University.
 - March 2016 presenter regarding 'TAMU SRL Mechanix' at PLTW National & Texas Summit.
 - Texas A&M University Research Experiences for Teachers (RET) participant (2015 – Future).
 - Lovejoy ISD STEM Council (2014 – Future).
 - 2015 Texas PTA Honorary Life Membership
 - 2015 Texas A&M Enrichment Experiences in Engineering E³ Summer Research Program
 - 2014 HEB Rising Star Finalist, 2016 HEB Rising Star Semi-Finalist
 - Proclamation 2015 - TEA Mathematics Textbook Evaluation. (Summer 2014)
 - Presented 'Flipped Classrooms: Fad, Fiction, or Future?' at TCEA in February 2014.
 - Presented 'The Next Giant Leap: Flipped to Online' at TCEA in February 2015.
 - Learning@Lovejoy summer PD high attendance in 2010/2011/2013.
 - Learning@Lovejoy presentations on 'Flipped Classrooms' in 2012/2013.
 - LISD Site-based committee (2013 – Future).
 - LHS Site-based committee (2012 – Future).
 - LISD Mission Possible (Technology Advancement) Team member since inception in 2011.
 - LHS Teacher Leader Team Member 2012/2013.
 - LISD Schools-Attuned trained PST support team member since inception in 2012.
 - Launched MathFella channel (2013) available to the planet via Youtube and Schooltube with a focus on math tutorials addressing commonly difficult concepts for high school students which are a basis for College Readiness understanding.
 - PLTW Summer Institute training – 10 days for PoE (2014) and 10 days for IED (2015).
 - AP-SMU Pre-AP Math Summer Institute training – 4 days (2011).
 - AMDM UT-Dana Center summer training – 5 days (2010).
 - Piloted precursor course for AQR (AMDM) in first year of teaching (2010).
 - GT training (2010).
 - Awarded a grant of 30 iPADS for upper-level math classroom use by Lovejoy Foundation in 2013.
 - Playwright and musician in local church and charter musician in the Allen Community Band.
 - Past City Council and Planning and Zoning Commission member.
 - Lovejoy High School Band Boosters President (2013).
 - Certified Toastmaster (CTM).
 - Member NCTM (National Council of Teachers of Mathematics).
 - Member TCEA (Texas Computer Education Association).
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