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Recent Relevant Experience

STEM Education Consultant, iFLY/Skyventures, LLC, 2013-present

iFLY is a for-profit company that owns recreational indoor skydiving facilities in cities across the world. I developed a K-12 STEM curriculum for their field trip program that is now replicated in 11 wind tunnels nationwide. Our goals are to make STEM relevant, exciting, and fully experiential. I held several planning workshops with teachers and administrators to ensure the curriculum supports classroom learning goals. The result is rich STEM instruction aligned to state and national standards, combined with the thrilling experience of skydiving.

Exhibit Development, the Thinkery, 2010-2013

As part of the Museum Planning Team, I was deeply involved with the Austin Children's Museum's transition to a new, larger facility. I participated in Master Planning and helped to craft a new approach to STEAM learning for our museum. I collaborated with our external exhibit design firm to develop hands-on experiences for 8 new galleries. My responsibilities ran the gamut from defining visitor outcomes, to writing label text, to selecting paint colors and finishes. The Thinkery opened its doors December 2013.

Exhibit Development, *Maker Kids and Tinkerer's Workshop*, 2007-2010

During my tenure as Science Content Developer for the Austin Children's Museum, I developed visitor experiences for 9 exhibits. Of these, *Maker Kids* and *Tinkerer's Workshop* both focused on integrating STEM content with the arts and creativity. *Tinkerer's Workshop* invited children ages 5-11 to explore engineering through design challenges. Working closely with the Women in Engineering Program at UT Austin I utilized best practices to engage girls in these activities. *Maker Kids* tapped into the DIY philosophy behind the growing "Maker" movement. Our exhibit stations included sewing, electronics, print-making, and using power tools.

Other Professional Experience

Director of Education, Phoenix Arising Aviation Academy, 2014

- Joined local STEM education non-profit as part of grant initiative to build organizational capacity
- Defined participants outcomes and created logic model for education programs
- Developed STEM curriculum for 10-week summer camp, after school, and field trip programs serving over 1,000 K-12 students annually
- Contributed to grant proposals, including creating budgets and defining measurable outcomes
- Developed Volunteer program, including recruitment, intake, and placement strategies. Developed Volunteer Orientation model
- Recruited, hired, and trained full-time and part-time staff. Provided ongoing support and evaluation for staff and volunteers
- Participated in organization strategic planning with the Board of Directors

Science Content Developer, Austin Children's Museum, 2008-2013

Institutional Leadership:

- Developed and implemented strategies to provide accurate, creative, effective, and accessible STEM content across programs and exhibits that serve 200,000 visitors annually
- Defined ACM's signature approach to STEM content
- Identified STEM funding opportunities, prepared and submitted proposals, developed and managed budgets, conducted program evaluation and fulfilled reporting requirements. Funded proposals 2010-2012 total \$372,000
- Served as Museum liaison to University of Texas at Austin's Science and Engineering departments, and to Austin professional STEM community
- Maintained and grew partnerships with national organizations, such as Nanoscale Informal Science Education Network and National Girls Collaborative Project
- Supervised Programs Coordinator and Technology Education Coordinator positions

Project Development:

- Delivered 2-day Inquiry professional development for 30 in-service pre-K teachers for UT Center for Science and Mathematics Education
- Coordinated multi-day, national professional development retreat for nine museums as part of the Tex-NET NSF project
- Established *Engineering Saturdays* program in collaboration with Cockrell School of Engineering
 - Recruited and trained engineering student organizations to deliver hands-on STEM outreach to Museum visitors
- Created ACM Blog to make educational content available to wider audience
 - Over 36,000 views in May 2012, and an international user base of children, parents, and teachers
- Served on New Museum Planning team for the Thinkery (ACM's new facility)
 - Developed 8 new STEM exhibit galleries
 - Created program menu, staffing model, and identified impacts and objectives
 - Developed transition plan for new museum staffing, programs, and exhibit prototyping
- Served on Exhibit Development Team
 - Developed 9 permanent and temporary STEM exhibits
 - Conducted research and defined messages, learning outcomes, and visitor experiences aligned with developmentally appropriate practices and formal education standards

Project Management:

- Developed and delivered monthly STEM trainings for education staff that includes both science content and inquiry-based teaching methods.
- Directed technology outreach program in low income elementary schools in AISD
 - Increased numbers served from 30 to over 150 students per year
 - Initiated and maintained partnerships with AISD teachers
 - Designed innovative curriculum combining computer programming with creative problem solving skills
 - Developed improved evaluation model to assess impact on 21st century skills
- Supervised curriculum, staffing, and logistics related to museum camp program that serves 750 elementary-age children per year

Programs Coordinator, Austin Children's Museum, 2006-2008

Graduate Teaching Assistant, University of Texas at Austin, 2005-2006

Engineering Associate, WHM Transportation Engineering, 2003-2004

Education

Master of Science, Science Education, University of Texas at Austin, 2007

Bachelor of Science, Engineering Science, Trinity University, 2002

National Professional Development Networks

Participant, CAISE Learning in Informal Settings Inquiry Group (2009)
Member, Texas Network for Exhibit-based Teaching and Learning (2009)
Participant, Exploratorium Institute for Inquiry (2009)

Associations and Honors

Board Member, Informal Science Education Association of Texas (2010-present)
Board Member, Texas Girls Collaborative Project Leadership Board (2008-present)
Interactivity Diversity Scholar, Association of Children's Museums (2007)
Founding Member, University of Texas Informal Science Education Research Group (2005-2007)
Fellow, Center for the Advancement of Informal Science Education (2008 and 2009)
Fellow, Equity and Diversity Leadership Program, Association of Science and Technology Centers (2008)

Recent Conference Presentations

It was a Dark and Stormy Grant Application, Informal Science Education Association (February 2015)
From STEM to STEAM, Association of Children's Museums Interactivity Conference (May 2012)
Collaborating and Communicating to Engage More Girls in STEM, STEM 2011 Conference (January 2011)
Beyond Painting Science Pink, Association of Science and Technology Centers Conference (October 2009)
Engaging Girls in Math and Science, Texas Informal Science Education Association Conference (February, 2008)
Big Science, Small Learners, Conference for the Advancement of Science Teaching (November 2007)

Other Skills

Proficiency in creating and managing budgets in Microsoft Excel
Microsoft Office Suite
Website design and management
Social Media platforms, including Facebook, Twitter, Wordpress
Adobe Illustrator, Adobe Photoshop
Experience writing, submitting, and reviewing NSF proposals
Graduate coursework in Evolution, Ecology, Conservation Biology, and Natural Resource Management