Daniel M. Downs, Ed.D.
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Education

Ed.D. Instructional Design-Leadership Educational Technology, Argosy University, 2013
Dissertation: Student Experiences in a Project Based Learning Technology Curriculum at A Suburban High School
M.Ed. Arts & Learning, Endicott College, 2007
BFA Fine Arts Studio & Graphic Design, Tufts University, 2004

Leadership Highlights & Achievements

- Worked collaboratively with state and national K-20 education leaders to plan and implement the first #GoOpen New England Regional Summit to support the use of openly licensed education resources at Amazon Robotics Cambridge.
- As co-chair of the MassCUE Board Influence & Advocacy Committee collaborated with Educational Leaders from Higher Education and COSN (Consortium of School Networking) organization to advocate and successfully support the components of the Massachusetts DESE Instructional Technology Licensure process.
- Co-Facilitated North Reading Public Schools participation as a catalyst district in the MAPLE (Massachusetts Personalized Learning EdTech Consortium).
- Project Coordinator & Computer Science and Information Technology Curriculum Developer and Subject Matter Expert for National Science Foundation Grant to support a consortium of community colleges with implementing Mobile Design & Computer Science courses.
- Member of DESE K-8 Computer Science Standards Implementation Team
- Member of Digital Learning & Computer Science Standards Implementation Team & MassCAN DLCS Licensure Panel
- Member of Instructional Technology Specialist Subject Matter Knowledge Panel for DESE
- Panelist Speaker at MAPLE Summer Institute for Personalized Learning
- Assisted in procuring and co-Managing the implementation of a technology infrastructure Grant with MassIT/DESE and vendors to provide updated wired and new wireless connectivity to three elementary schools in North Reading.

Experience

Director Of Digital Learning
North Reading Public Schools North Reading, Massachusetts
October 2015-Present
Future Ready and #GoOpen District
- Initiated the districts membership as one of the original 14 catalyst district part of MAPLE(Massachusetts Personalized Learning EdTech)
- Co-implemented the Future Ready framework of strategic planning with district leadership.
- Supervise and support Digital Learning Specialists, Library Media Specialists, Digital Learning & Entrepreneurship teachers and technology and data support staff.
- Implemented the development of a new web design and two new robotics courses into the high school curriculum.
- Worked collaboratively with curriculum leaders to create a pathway for students to identify critical course competencies and STEAM skill and career areas.
- Coordinated the districts implementation of FIRST robotics into the daily curriculum for 4th grade students.
- Worked collaboratively with district leadership and educators for a successful implementation of a 1:1 Chromebook implementation for grades 7 & 8.
- Co-Planned and implemented the districts first "STEAM Night" Event for district educators and community.
- Continue to develop and revise digital learning course and integration competencies to meet the needs of students in the areas of Computer Science, Digital Literacy and Digital Citizenship K-12.
- Work collaboratively with Digital Learning team to develop relevant and pedagogy driven professional development opportunities for staff in online and in person formats.
- Developed the strategic planning team and led the development of the districts Digital Learning & Technology Plan for 2017-2021.

Program Coordinator Digital Learning Grades 6-12
Andover Public Schools Andover, Massachusetts
July 2014 - September 2015
- Designed curriculum for the "Andover Innovation Lab & Student Help Desk".
- Coordinated content and implementation of Web Design Game Design courses.
- Collaborated with video teacher to promote Video production courses resulting in a doubling of student enrollment of these courses at Andover High School.
- Evaluated & Supervised Digital Learning teachers & High School Librarian.
- Assisted in writing of the Digital Learning Strategic Plan and plan technology initiatives such as the iAndover 1:1 plan and teacher laptop training.

Adjunct Professor CIT Department
Bunker Hill Community College, Charlestown, Massachusetts
December 2011 – Present
- Responsible for instruction of computer courses using traditional class instruction and Pearson E-Learning platform to teach students with a wide range of computer literacy. Courses also included lecture and lab time for student projects and skill development.
- Courses Taught:
    CIT 101 Computer Essentials
    CIT 110 Computer Applications and Concepts
    CIT 527 Intro to Android Programming
    CIT 241 PHP & MYSQL
    CIT 287 WIndows Operating System

Digital Learning Specialist
Andover High School, Andover, Massachusetts
August 2013 – July 2014
- Coordinate and direct the integration of technology into high school classrooms
- Provided system-wide courses and training to facilitate the integration of technology into teaching and assessment practices for teachers.
- Instructional leadership and coaching to teachers as it pertains to technology.
- Provided teachers with 1-1 small group and in-service instruction to develop competencies with applied technology throughout the system and piloted numerous new technologies.

IT Coordinator-Northeast Resiliency Consortium
Bunker Hill Community College, Charlestown, Massachusetts
January 2014 - January 2015
- Served as technology liaison between Northeast Resiliency Consortium (NRC) Grant staff at Passaic County Community College and Bunker Hill Community College.
- Worked with CIT staff to ensure programmatic efforts under the grant are moving forward and the department is meeting deliverable deadlines.
- Specific course development areas include Mobile Application Design course and Introduction to Android Programming courses.

Adjunct Professor
Northern Essex Community College, Haverhill, Massachusetts
December 2012 - Present
- Instructor for Computer Animation and Web Design courses with specific projects to be completed using HTML, CSS, PHP and animation software.
- Courses Taught:
    Animation
    Web Design

Computer Education Teacher
Winchester High School, Winchester, Massachusetts
August 2008 – July 2013

- Taught Web Design I&II Courses, introducing and developing a student's abilities to make websites using HTML/CSS/JavaScript and PHP computer languages. Students also learn how to use Adobe Photoshop, Dreamweaver, Illustrator and Flash.
- Designed the curriculum and implemented the Developing Mobile Applications course enabling students to learn how to design, develop and test mobile applications on the IOS and Android devices.
- Taught the Sports Marketing business education course introducing students to marketing concepts using the context of the world of sports. Students investigate how to develop their own product and develop a plan for real world marketing opportunities using the web, social media and graphics.
- Animation I&II Courses teaching the basics of computer animation, movement and Adobe Flash software. Students created a portfolio of videos, which show their abilities to tell stories, create graphics and create realistic movement.

Art Teacher
Haverhill High School, Haverhill, Massachusetts
August 2007 – July 2008
- Taught Computer Graphics using Adobe Photoshop with project assignments for students to create idea driven portfolio based on business concepts and skill lessons.
- Basic art courses for elective art credit. Focus on art & design principles and introduction to variety of media.
- Photography I course with an overview of camera functions and aesthetics. Course also covers darkroom printing techniques and aesthetic approaches.

Special Education Art Teacher
Haverhill Public Schools, Haverhill, Massachusetts
August 2006 – July 2007
- Provided art classes for all Special Education students K-8 in the district.
- Services were for a variety of disability levels and required instruction using tactile, kinesthetic and visual lessons.
- Required travel to 8 different schools within the district.

Publications
- Downs, D. (2018, July) Partner to amplify advocacy efforts at the highest levels. https://www.iste.org/explore/articleDetail?articleid=2221&category=Empowered-Learner&article=
- Digital Learning and Technology Plan for the North Reading Public Schools | North Reading Public School District. (2017, December 31). https://www.north-reading.k12.ma.us/district/news/digital-learning-and-technology-plan-north-reading-public-schools

- #GoOpen Regional Summit News Article - Massachusetts Department of Elementary and Secondary Education. (2016, August 12).
http://www.doe.mass.edu/news/news.aspx?id=21825
- Downs,D. (2015, May) Differentiating technology instruction in the community college classroom - eCampus News. (2015, May)
https://www.ecampusnews.com/2015/05/26/differentiating-technology-instruction-in-the-community-college-classroom/
- Downs, D. (2013, June 30). Student Experiences In A Project Based Learning Technology Curriculum In A Suburban High School
https://www.slideshare.net/danieldowns1/daniel-downs

Statewide Planning & Implementation Teams
- MassCUE Board Member (2016-18) Influence & Advocacy Co-Chair
- DLCS Implementation Team (2016)
- MassCAN DLCS Licensure Panel (2016)
- Instructional Technology Specialist Subject Matter Knowledge Panel
- Lead MassCUE STEAM & Robotics Special Interest Group
- Member Of Massachusetts DESE STE Leadership Planning Group

Dissertation Committees

- **"We Are All Makers: A Case Study of One Suburban Districts Implementation of Makerspaces"**
Cathy E. Collins Doctor of Education Northeastern University
Boston, Massachusetts
December, 2017
- "Understanding Perceptions of Latino Parents Who Relocate from Low Performing Urban to High Performing Suburban School Districts"
Mary Ellen Janeiro   Doctor of Education Northeastern University
Boston, Massachusetts
August, 2015

Educational Consultations

NISGTC Curriculum Development
Bunker Hill Community College-Certificate in Mobile Application Development
May 2012 -April 2014
- Curriculum development work with a consortium of 7 community colleges to create a Certificate in Mobile Development program at multiple institutions. Currently includes two separate tracks (IOS & Android) in a total of 6 courses as part of Department of Labor Grant with Collins College.

Faculty Curriculum Training On Mobile Application Development
Springfield Public Schools Springfield, Massachusetts
August & November 2012

- Provided a weeklong training and curriculum development in mobile application curriculum for staff of the Technology Department of the Springfield Public Schools.

Technology Curriculum Consultation
St. Thomas Aquinas High School Dover, NH
January 2012

- Met with Technology leadership team and helped them develop strategies for integrating mobile applications into their curriculum.

Graduate Level Teaching and Curriculum Development

Developing a Mobile Applications Curriculum for Educators
Endicott College Beverly, Massachusetts
Summer 2012

- Course aimed at teachers to help them integrate mobile develop into their technology curriculum. Course covers a variety of projects and strategies for app design and development for teachers.

Digital Photography for Teachers
Endicott College Beverly, Massachusetts
Summer 2008

- Digital photography course enabling teachers integrate digital images into lessons and curriculum. Strategies for helping teachers to manage a variety of image editing programs such as Adobe Photoshop and Picasa is also part of the course.

Technical Skills

- Proficient Computer Languages: Java, HTML5,CSS3, XML, PHP, Javascript, SQL, C, C++, Python, Jquery, Flash Actionscript
- Tools: Adobe Creative Suite(Dreamweaver,Photoshop,Illustrator,),Google Apps For Education, Screencast-O-Matic, Microsoft Office Suite, SPSS, Wordpress, Joomla
- Learning Management Systems(LMS): Blackboard,Moodle, eCollege,
- Operating Systems: Proficient on Mac, Windows 8/10, Linux and Chromebook OS

Professional Associations

BATEC (Boston Area Technology Education Collaborative)
Member MassCUE (Massachusetts Computer Using Educators)
Bunker Hill Community College
Boston Tech Forum
Endicott College
NH ISTE
New England ISTE

Appearances In Popular Media

- Downs, D.(2015, December 31)."Highlights from the #GoOpen regional summit"
  https://blog.mass.gov/odl/author/daniel-downs
- Members selected to serve on the Instructional Technology Specialist (ITS) Subject Matter Knowledge Panel-News Article - Massachusetts Department of Elementary and Secondary Education. Retrieved November 25, 2018, from
  http://www.doe.mass.edu/news/news.aspx?id=24357
- Luca, D. (2014, February 27) Andovertownsman.com "From support squad to innovators"
  https://www.andovertownsman.com/community/from-support-squad-to-innovators/article_55a2693e-1754-5067-9253-4e8022a874ff.html
- McGonigle, B. (2013, December 15). Andover High School Puts Digital Instruction in Students Hands. Retrieved November 25, 2018, from
  https://patch.com/massachusetts/andover/andover-high-school-puts-digital-instruction-in-students-hands
- Marcinek, A. (2013, December 31). The Help Desk: Leveraging Student Genius. Retrieved November 25, 2018, from
  https://www.edutopia.org/blog/help-desk-leveraging-student-genius-andrew-marcinek
- Marra, D. (2011, November 27). Winchester High Schools New Course: Designing Applications (Apps) for Androids. Retrieved November 25, 2018, from
  https://patch.com/massachusetts/winchester/amp/2855548/winchester-high-schools-new-course-designing-applications-apps-for-androids
- uTest. (2011) High School Teaches Students A Different Kind Of Testing
  https://www.utest.com/articles/high-school-teaches-students-a-different-kind-of-testing-app-testing
- High School Class Gives New Meaning to Learning Apps -- THE Journal. (2010, December 31).
  https://thejournal.com/articles/2011/12/05/high-school-class-gives-new-meaning-learning-apps.aspx
- Mastering Digital Literacy. (2012, December 31)
  https://books.google.com/books?id=gnsXBwAAQBAJ&dq=daniel+downs+mobile+apps&source=gbs_navlinks_s

Presentations:

- Downs, D. (2018, November) Programming The Digital Learning Standards, Christa McAuliffe Technology Conference, Manchester, New Hampshire
- Downs, D. (2018, November) A District Rubric For Robotics Success,Christa McAuliffe Technology Conference, Manchester, New Hampshire

- Downs. D. (2016,December) The Learning Counsel Panelist: Digital Curriculum Boston College Center, Dover, Massachusetts
- Downs, D. (2013, February) "Developing a Mobile Application Curriculum Which Empowers Authentic and Personalized Learning Experiences" TIE Conference Holyoke Community College, Holyoke, Massachusetts
  http://www.collaborative.org/sites/default/files/TiE2014-ProgramBooklet.pdf
- Downs,D. (2016,October) "The Ever-changing Role Of The Digital Learning Specialist" MassCUE & M.A.S.S. Fall Conference 2016:
  https://masscuemassfallconference2016glo.sched.com/event/8IZ2/the-ever-changing-role-of-the-digital-learning-specialistinstructional-technologist
- Downs,D.(2015,May)Tech & Learning Boston
  "Video In The Classroom" Newton, Massachusetts
- Downs.D.(2014, October) "An Overview Of The Andover Innovation Lab & Help Desk" MassCUE Fall Conference Foxboro,Massachusetts
- Downs,D.(2014,January) "Empowering Students With Authentic Learning With Mobile Application Development" Technology In Education Conference Collaborative (TIE) Holyoke, Massachusetts
- Downs,D. (2013, December))"Project Based Learning Using Technology" Wheelock College, TSTT (Today's Students Tomorrow's Teachers) Conference Boston, Massachusetts
- Downs,D. (2012, April) "Students Developing Mobile Applications" Boston Tech Forum Burlington, Massachusetts
- Downs,D. (2012, February)"Mobile application curriculum integration strategies for Instructional Technologists" Waltham, Massachusetts
- Downs,D.(August 2013)"Project-Based Learning With Technology & "Developing Flipped Classroom Resources" TechCon Andover Public Schools Andover Public Schools Andover,Massachusetts
- Downs,D.(2012,July) "Employability Skills & Mobile Development" Bunker Hill Community College Summer Career Days Bunker Hill Community College Charlestown, Massachusetts
- Downs,D. (2012, March) "Leadership Strategies with Mobile Curriculum" MassCUE Leadership Conference Holy Cross College Worcester, Massachusetts
- Downs,D.(2011, October)"Developing a Mobile Applications Curriculum Workshop" MassCUE Fall Conference Conference Gillette Stadium Foxborough, Massachusetts
- Downs, D. (2007, December 31). Invited Talk "Mobile Applications FOr Teachers" - EDCO Learning Collaborative, Waltham,Massachusetts
  https://www.academia.edu/1816717/Invited_Talk_and_Presentation_-_EDCO_Learning_Collaborative

Awards and Honors:
- Teacher/Staff Tribute 2008/2009 The Winchester Foundation for Educational Excellence Celebrating Innovation & Excellence
- Teacher/Staff Tribute 2010/2012 The Winchester Foundation for Educational Excellence Celebrating Innovation & Excellence

References available upon request.