

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.
Follow this format for each person. **DO NOT EXCEED FIVE PAGES.**

NAME: Lisa Sundahl Platt

eRA COMMONS USER NAME (credential, e.g., agency login): lisaplatt (15994044)

POSITION TITLE: Assistant Professor in the Department of Interior Design and Florida Institute of Built Environment Resilience Faculty

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
Savannah College of Art and Design	BA	08/1992	Interior Design
Kansas State University	MS	12/2014	Psychology-Industrial and Organizational focus
State University of New York at Binghamton	Ph.D.	08/2019	Systems Science-Health Systems Engineering focus

A. Personal Statement

As the Interior Design department faculty and research representative for the University of Florida's College of Design Construction and Planning Florida Institute for Built Environment Resilience (FIBER), I am driven by the idea of how we can design and build systems that better support the humans using them. My career in healthcare environment design and operational improvement analysis has been to discover ways thoughtfully applied translational research can elicit practical innovation for improving human and system resilience. My tenure as a licensed designer, analyst, and operations systems researcher has allowed me to collaborate with cross-functional quality management teams in safety-critical industries in the U.S. and internationally. I have also had the benefit of being able to work with patient, rehabilitation, and long-term care resident groups around the world seeking evidence-based ways to use human-centered design for improving individual and population health and wellbeing. These healthcare stakeholders have included vulnerable persons such as those struggling with mental and behavioral health issues, chronic condition management, engaging in blind-rehabilitation, LGBTQ-centered healthcare, rural-health, and older adults. I spent several years working with Veteran Health Administration agencies and facilities to support their efforts on improving the Veteran experience in healthcare. This work included a three-year tenure as a healthcare environment improvement consultant with the VA National Office of Patient-Centered Care & Cultural Transformation (OPCC&CT) Veteran Centered Care program development and Field Implementation.

My current research focus is on using Resilience Engineering as a framework for prevention through design of healthcare environments. I am passionate about this research, as engineered systems within the healthcare environment can significantly affect both staff and patient physical and psychological safety. The primary purpose of my research is to explore potentials that Systems Engineering modeling tools have in informing reliable "Prevention through Design" (PtD) strategies for environment of care design and clinical support operation.

The motivation for choosing this area of research is due to the increasing emergence of opportunities for applying systems science to improve Human Factors in healthcare planning, operations, and process outcomes.

Accessible systems engineering tools allow cross-functional healthcare environment design and quality improvement teams to visualize time-based, progressive data stream behavior. Furthermore, it provides for process stakeholders to consider the impact of variables both internal and outside system design parameters on potential systems' performance outcomes upstream, or at minimum concurrently, to environmental design concept implementation. My hope is that the models developed as part of this study can demonstrate the utility of innovative quantitative tools such as data mining and supervised learning models to forecast and moderate environmentally based causal issues related to human safety.

Representative publications related to this work includes:

1. Health Research & Educational Trust. (2016, March). Improving Patient Experience Through the Health Care Physical Environment. Content Contributed by Lisa Platt, et.al. Edited by Kenney, L. and Martin D. Chicago, IL: Health Research & Educational Trust. Accessed at www.hpoe.org.
2. Platt, L. S., & Greene, M. (2017, July). Increasing Patient Safety Through Resilient Design: Using Human Factors Engineering and Environmental Support Mechanisms to Reduce Potentials of Hospital Acquired Infection. International Conference on Applied Human Factors and Ergonomics (pp. 3-10). Springer, Cham.
3. Platt, L. S., Bosch, S. J., & Kim, D. (2017). Toward a Framework for Designing Person-Centered Mental Health Interiors for Veterans. *Journal of Interior Design*, 42(2), 27-48.
4. Platt, L. (Pending June 2019) Chapter 10: Designing for Resilience. *Human Factors Design for Healthcare*. Edited by Sethumadhavan A. and Sasangohar, Amsterdam, The Netherlands: Elsevier

B. Positions and Honors

Positions and Employment

1992-1994	Senior Interior Designer, Corporate Interiors Knoxville, TN
1994-1996	Store Design and Construction Documentation Production Manager, GOODY's Family Clothing Headquarters, Knoxville, TN
1996-1998	Senior Interior Design and Project Manager, Allen & Hoshall Architects and Engineers Knoxville TN and Memphis TN offices
1998-2000	Senior Interior Design and Project Manager, ADD Inc, Cambridge MA
2001-2002	Senior Interior Design and Senior Project Manager, Visions Design, Asheville, NC and Johnson City TN offices
2001-2002	Adjunct Professor for Building Codes and Life-Safety Design at East Tennessee State University, Johnson City TN
2002-2004	Senior Project Manager for Commercial and Healthcare Design, Anderson Design, Nashville, TN
2005-2008	Director of Interior Design, Caldwell Associates Architects, Pensacola, FL
2008-2011	Director of Interior Design, The CFP Group, Nashville TN
2010	Graduate Lecturer Lipscomb University College of Leadership and Public Service, the Institute for Sustainable Practice; MBA Program. Subject Matter Expert for Integrating Sustainable Practices in Design and Building Operations
2011-2016	Director for Product Development; Planetree International, Derby CT
2016-2018	Managing Partner of UMNSystems LLC Human Factors Analysis, Research and Design, Nashville, TN
2019-Present	Assistant Professor of Interior Design and Florida Institute for Built Environment Resilience Research Faculty

Other Experience and Professional Memberships

Environmental Sustainability and Resilience:

2004-2005	City of Pensacola Sustainability Task Force. Representative for Sustainable Architecture and Urban Planning
2005-2008	USGBC Northern Gulf Coast. Founding member and Chapter Co-Chair: 2005
2008	City of Franklin Sustainability Task Force. Energy Committee: 2008

Healthcare Quality Organization Participation:

2008-Present	Center for Healthcare Design; EDAC Certified Designer
2013-Present	American Society for Quality; Professional Member / Certified Six-Sigma Black Belt
2016-Present	Association for Professionals in Infection Control; Professional/Full Member
2016-2018	Vice-President for Tennessee Valley Human Factors and Ergonomic Society Chapter
2016-Present	American Psychological Association; Division 21: Applied Experimental and Engineering Psychology
2016-Present	American Society for Healthcare Engineers; Professional/Full Member

Research and Healthcare Quality Consortium Appointments:

2017	TEDMED Research Scholar – Focus: Health Systems Engineering
2018	DySoC/NIMBioS Investigative Workshop – “Extending the Theory of Sustainability” selected research participant: 2018
2018-Present	HITS (Healthcare Infection Transmission Systems) Consortium; Healthcare Environments work group
2018-2019	Healthcare Design Magazine and the Center for Health Design judge for HCD awards

Honors

1992	Savannah College of Art and Design Deans Award for Interior Design
2002	IIDA Silver Award for Interior Design
2013-2014	Phi Kappa Phi Honor Society Kansas State University Chapter
2019	Alpha Pi Mu Industrial Engineering Honor Society SUNY Binghamton Chapter

C. Contributions to Science

I have also developed research on Human Factors and Persuasive Experience design for workplace wellness systems. This work seeks to predict workplace environmental and technological factors that may measurably influence sustainable employee wellness behavior change.

Representative publications related to this work includes:

1. Platt, L. S., Li, H., & Bass, C. E. (2018, April). Evaluating Persuasiveness of Corporate Wellness Web-based learning interfaces. *Proceedings of the Technology, Mind, and Society* (p. 32). ACM.
2. Platt, L. S., Li, H., Bass, C. E., & Yu, K. (2018, June). Validating Persuasive Experience (PX) Theory: Preliminary Results of a Case Study on a Corporate Wellness Program’s Web-based Learning Interfaces. *Proceedings of the International Symposium on Human Factors and Ergonomics in Health Care* (Vol. 7, No. 1, pp. 56-63). Sage India: New Delhi, India: SAGE Publications.

Additionally, I have served as a trainer, frequent guest speaker and subject matter expert on the topic of applied quality and safety systems control at U.S. and international healthcare safety, operations, and technology conferences. This included serving Field Implementation Team trainer and Subject Matter Expert for Veteran Centered Patient Centered Performance Improvement for the Office of Patient Centered Care and Cultural Transformation.

I have also written extensively for well-respected healthcare quality and design publications related to applied data informed quality control methods to healthcare improvement.

Representative Healthcare Quality Improvement Publications:

1. Carter, R. & Platt, L. (2013) Chapter 7: Healing Environment Architecture and Design Conducive to Health. *Planetree: The Putting Patients First Field Guide*. Edited by Frampton, S., et.al. San Francisco, CA: Jossey-Bass.
2. Platt, L.S. & Sharrow, R. (2014) Integrating Participatory Methods into Healing Design; An Interview with Robert Sharrow, Albert Kahn Family of Companies. *Planetalk*.
3. Aronson, J. & Platt, L.S. (2015) The Innovation of Using Toy Libraries to Impact Community Health and Well-Being. *Planetalk*.
4. Hankinson, M.T. ... & Platt, L.S. (2015) Developing Plans for a Healing Garden at VA New Jersey, *Planetalk*.
5. Platt, L.S. (2015) Leveraging the Human Factor in Healthcare Performance. *Planetalk*.

6. Platt, L.S. (2015) Using Patient-Centered Performance Management to Create a Culture of Continuous Improvement in a Free-Standing Emergency Department. Planetalk
7. Morgan, J (2017). "Design framework created for VA mental health centers Researchers dive into design strategies for mental and behavioral health centers." Health Facilities Management
8. "Take 5 with Lisa Sundahl Platt," Perspectives. *Human Factors in Healthcare Design*. Healthcare Design Magazine. November 2018

D. Additional Information: Research Support and/or Scholastic Performance

The following are awarded grants which I worked as a key member of the application, project management and survey materials development team for Planetree International:

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| 2014-2015 | CMS Transforming Clinical Practice Initiative Patient, Caregiver, & Community Engagement Support & Alignment Network (PaCCE SAN); Role: Planetree Grant RFP Development & Deployment Team; Amount: Nondisclosed |
| 2015-2016 | CMS Connecticut State Innovation Model; Role: Planetree Grant RFP Development & Deployment Team; Amount: Nondisclosed |

I hold the following licensure and accreditation with the following federal, state, and international regulating organizations:

1. State of Florida Board of Architecture and Interior Design; License Number: ID5220
2. State of Tennessee Board of Architectural and Engineering Examiners Interior Design; License Number: 1163
3. American Society of Quality ASQ Certified Six Sigma Black Belt; Certification Number: 16183
4. U.S. Green Building Council Building Design + Construction; GBCI Number: 83942
5. The Center for Health Design Evidence-Based Design Accreditation and Certification; CHD-05-8149
6. National Council for Interior Design Qualification NCIDQ; Certification Number: 139134