

ERVIN L. MCWILSON II

Management Science and Engineering|Huang Engineering Center|Stanford, CA. 94305
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EDUCATION

Stanford University Doctor of Philosophy (PhD) Student	07/2022 to Present
Binghamton University, Binghamton, NY Masters of Engineering in Electrical Engineering (M.Eng.)	05/2010
Norfolk State University, Norfolk, VA Bachelor of Science in Electronics Engineering (B.S.)	05/2007

WORKING PAPERS

McWilson, L. Ervin and Sheares, Alicia How Black Women Entrepreneurs Navigate the Venture Capital Process <i>Stanford IRB Approved Study currently underway in collecting data</i>	07/2022 to Present
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SELECTED PRESENTATIONS & WORKSHOPS

Stanford University TEDx Conference <i>I'll Watch the Kids, Stanford, CA.</i>	05/2023
National Society of Black Engineer (NSBE) National Conference <i>From the Classroom to the Office, Kansas City, MO.</i>	03/2017
<i>Vision, Attitude, Skills, Test(V.A.S.T.), Boston, MA.</i>	03/2016
<i>Vision, Attitude, Skills, Test(V.A.S.T.), Anaheim, CA.</i>	03/2015
<i>Vision, Attitude, Skills, Test(V.A.S.T.), Nashville, TN.</i>	03/2014
Northrop Grumman African American Task Group(AATG), Atlanta Chapter <i>Corporation You, Atlanta, GA.</i>	07/2017
Northrop Grumman Systems Engineering Conference <i>The Power of Patience in a Test Engineering Environment, Washington DC.</i>	06/2017
<i>An Insider Perspective of Field Engineering, Washington, DC.</i>	06/2017
Northrop Grumman African American Task Group National Conference <i>Corporation You, Washington, DC.</i>	02/2017
Black Engineer of the Year National Conference <i>Dress for Success, Washington, DC.</i>	02/2017
Bethel Worship Center <i>Financial Freedom, Financial Freedom One Step at a Time. Frederick, MD.</i>	11/2014
Historically Black College University (HBCU) Up National Research Conference <i>Calibration of a Dual Orthogonal Fluoroscopic System</i>	11/2006

POSTER PRESENTATIONS

Norfolk State University Research Symposium McWilson, Ervin; Suggs, Jeremy; Li, Guoan. <i>Calibration of a Dual Orthogonal Fluoroscopic System</i>	06/2005
MIT Summer Research Symposium, Cambridge, MA. McWilson, Ervin; Suggs, Jeremy; Li, Guoan. <i>Calibration of a Dual Orthogonal Fluoroscopic System</i>	04/2005
NASA Summer Research Symposium, Mountain View, CA McWilson, Ervin L., Boyle, Richard. <i>An Exploration of the Combination of Multiple Imaging Devices</i>	08/2004
Southern Regional Honors Council Annual Conference, Wilmington, NC.	04/2004

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Walker, Stephanie; Reynolds, Kevin; McWilson, Ervin; Moore, Sharniece; Davidson, Cassy; Newsome, Jelaun;
The Changing Tide of Pedagogy: Incorporating Service Learning in the Honors Classroom

ENGINEERING RESEARCH EXPERIENCE

MIT Summer Research Program, Cambridge, MA. 05/2005-08/2005
Research Fellow

NASA Ames Research Center, Mountain View, CA 05/2004-08/2004
Research Fellow

ACADEMIC EXPERIENCE

Ernest Houston Johnson Honors Program, Stanford University, Stanford, CA 08/2022-08/2023
Teacher Assistant and Mentor

Taught 6 lectures in spring quarter independently, focusing on key conceptual topics for first year students. Developed innovative active learning techniques to engage students. Provided one-on-one academic mentoring and feedback to a cohort of 10 undergraduate students. Monitored understanding through assignments and regularly communicated with advisees.

Kelley School of Business, Indiana University, Bloomington, IN 10/2020-10/2022
Research Assistant

Conducted extensive literature review on topics in entrepreneurial research including technology bias, entrepreneurial bricolage, experimental design, signal theory, and methodologies in addition to writing articles focused on specific issues for publishing in mainstream entrepreneurial periodicals.

St. Philip's Community College, San Antonio, TX 11/2018-12/2020
Adjunct Instructor

Initiated first transfer-agreement partnership with Prairie View A&M University, fostering growth of diversity pipeline for engineering students. Increased exposure for students to industry practices through creation and introduction of new corporate partnership program with engineering corporations, formerly not available to student body. Contributed to increase in retention rates for diverse students matriculating through engineering curricula via engagement with professional organizations, career lectures, and working to establish local junior org chapters.

Binghamton University, Binghamton, NY 09/2009-08/2010
Graduate Student Advisor

Advised undergraduate students in areas of academic achievement, career choices, leadership, and campus relations. Conducted one-on-one mentoring sessions for students and student leaders. Attended weekly meetings and facilitated discussions on current events and campus matters. Created leadership book club. Held book club discussions about leadership, effectiveness, and emotional intelligence. Advised students in planning different events on campus.

Norfolk State University, Norfolk, VA. 08/2005-06/2007
Tutor

Met with students on weekly to review students' homework, tests and quizzes. Assisted in the development of study plans, and facilitated students' understanding in applying study concepts to navigate their current class load. Tutored students in Arithmetic, Algebra, Calculus, and Differential Equations.

INDUSTRY EXPERIENCE

Raytheon Technologies, Tucson, AZ. 10/2017-07/2019
Senior Systems Engineer II

Northrop Grumman, Linthicum, MD. 07/2012-07/2017
Senior Test Engineer Lead

ComSource Corporation, Frederick, MD. 01/2011-07/2012
Electrical Engineer

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BAE Systems, Johnson City, NY.

Engineering Leadership Development Program (ELDP) Engineer

06/2007-09/2009

SELECT ENTREPRENEURIAL EXPERIENCE

Ayanda Leadership Institute, Chester, VA.

Co-Founder

08/2019-08/2022

GS Transport LLC, Beltsville, MD.

Founder & CEO

09/2015-10/2018

HONORS & AWARDS

NSBE Stimulating Young Minds Institute (SYMI) Fellow

03/2019

2nd Place Raytheon Hack-a-Thon Innovation Competition

07/2018

PhD Project Annual Conference Recipient (accepted after rigorous selection process)

11/2016

Black Engineer of the Year Modern Day Technology Leader Award

02/2016

Northrop Grumman Select Advanced Radar Concept Fellow

01/2015

Northrop Grumman Rewards Award Program Recipient

12/2014

SERVICE

University of Maryland Center for Minorities in Science and Engineering Mentor

11/2013-07/2017

Maryland Business RoundTable Mentor

01/2013-01/2017

Northrop Grumman High School Improvement Program Mentor

08/2012-07/2017

AFFILIATIONS

Academy of Management

PhD Project