**Karina Sotolongo**

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# Summary

# Human Systems Engineer and User Experience professional with practical experience applying human factors standards including MIL‑STD‑1472 to design, evaluate, and optimize systems and workspaces. Strengths in systems engineering, UX research, data-driven decision making, technical communication, and cross-functional stakeholder collaboration. Skilled in Python, SPSS, Rhino 3D, Figma, and prototype testing. Proven record of leadership, process improvement, and translating research into operational recommendations.

# Education

**M.S. User Experience**  May 2025 3.92 GPA

**B.S. Human Systems Engineering**  May 2024 3.70 GPA

# Skills & Tools

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| Human Factors & Ergonomics (MIL‑STD‑1472 application, usability testing, task analysis) | Additional tools: Adobe Creative Suite, C++, MOS certified |
| Systems Engineering & Design (requirements, prototyping, A/B experiments) | Technical Communication (reports, stakeholder briefings, classroom instruction) |
| UX Research & Analytics (surveys, heuristics, SPSS, Google Analytics) | Data Analysis & Visualization (Python, Power BI) |
| Prototyping & 3D Modeling (Rhino 3D, 3DS Max, Figma, Balsamiq) | Project & Stakeholder Management (Asana, Workday) |

# Experience

**6th Grade Math & Science Teacher, Brevard Public Schools | Brevard County, FL | Jul 2025 - Present**

* Designed and delivered standards-aligned STEM curriculum while integrating classroom technology and human‑centered design principles to enhance learning outcomes.
* Applied MIL‑STD‑1472 principles in classroom ergonomic assessments and instructional tool design to reduce cognitive load and improve accessibility for diverse learners.
* Employed data-driven assessment strategies and SPSS/Python analyses to track student progress and iterate instructional strategies, improving formative assessment scores.
* Led STEM projects that translated human systems engineering concepts into hands-on student work, fostering problem-solving and systems thinking.

**Alpha Chapter President, Delta Sigma Inc. | Remote | Apr 2024 - Present**

* Directed chapter strategy and operations; increased membership by 26% through targeted outreach and grant-funded programs.
* Implemented monthly feedback analytics

**Supervisor, Starbucks | Port Saint Lucie, FL | Feb 2019**

# Managed store operations and coached staff on customer experience and safety protocols; led regional training initiatives on employee benefits and scholarships.

# Developed process improvements that increased customer satisfaction metrics and supported workforce planning and talent development.

# Projects

**Universal Orlando Crowd Control Optimization**

* Led A/B research comparing navigation and signage tools across visitor segments; used quantitative wait‑time analysis and observational methods to reduce average queue times by 30%.
* Produced evidence-based UX and operational recommendations for wayfinding and staff placement.

**Secureware: Wearable Mobility Aides**

* Designed and tested wearable prototypes for injury prevention.
* Conducted PRA-compliant surveys, 3D modeling, and usability testing.

**Barnes & Noble UX Redesign**

* Performed heuristic evaluation and moderated usability tests to identify critical checkout and navigation blockers.
* Built interactive Figma prototypes and delivered prioritized design solutions that improved conversion pathways.

**Certifications & Professional Development**

* MOS Certification
* Coursework and applied projects using MIL‑STD‑1472 human factors criteria
* Advanced workshops: Usability Testing, Python for Data Analysis, 3D Modeling for Prototyping