**Alexander Stensland**

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**Experience**

**Booz Allen Hamilton** – *Software Engineer / Analyst*; Chicago IL  *August 2022 – Present*

* Strategically designed, executed, and oversaw comprehensive end-to-end development of complex mechatronic systems. Yielding enhancements in efficiency, cost-effectiveness, and fidelity by **41%** annually.
* Leveraged cutting-edge software solutions to deliver **multi-million-dollar** system models for analysis.
* Managed the software development life cycle of each hybrid system, using Agile methodology, ensuring active participation from **10** senior systems engineering experts across the nation.
* Optimized project outcomes by simplifying test processes, reducing run time by **22%**, and impacting **250+** stakeholders.
* Crafted a comprehensive V&V strategy to ensure compliance with requirements, playing a pivotal role in facilitating the adoption of new business initiatives by a team of **25** professionals.
* Applied expertise in data analytics and MBSE principles to drive impactful decision-making, unlocking **$150,000+** of new revenue streams.

**Scientific Research Corporation** – *Junior Systems Engineer*; Charleston SC *November 2021 – May 2022*

* Constructed model-based representations using data architectures and data models to facilitate interoperability to improve business efficiency and performance by **15%** annually.
* Orchestrated a seamless integration among cross-functional teams, aligning technical initiatives with project deliverables; achieved a **10%** reduction in production costs.

**The Citadel, The Military College of South Carolina** – *Executive Officer*;Charleston SC *August* *2021 – May 2022*

* Spearheaded a team of **seven** officers to work with school administration to maintain and uphold academic, physical, moral, and disciplinary standards for **115+** cadets in a senior military college environment.
* Implemented innovative planning tools and processes to modernize logistical and administrative support, ensuring seamless coordination and execution of company-level missions; achieved **100%** mission success rate.

**Skills**

**Languages / Development Tools:** C++, C#, C, Git, Python, HTML, CSS, JavaScript, Visual Studio, and CMake

**System Modeling Software / Products:** AFSIM, MATLAB, Cameo, GitLab, Jenkins, Jira, Linux, and MS Office Suite

**Technical Projects**

**Novel Modified Layer-by-Layer Ionic Self-Assembly for 3D Control** – *Researcher*; Charleston SC *2021 – 2022*

* Characterized and published a novel process for polymer film fabrication using UV-Vis absorption spectroscopy.
* Developed documentation and fabricated layer-by-layer polymer films using an Arduino controlled robot-dipper.

**Multivariate Decomposition of Acoustic Signals** – *Research Assistant*; Charleston SC *2019 – 2020*

* Conducted research in the field of drone detection through analysis of unique acoustic properties of a drone.
* Programmed algorithms and implemented multidimensional arrays for data analysis resulting in a **35%** decrease in processing time.

**Education**

**The Citadel, The Military College of South Carolina**, Charleston SC *2022*

*Bachelor of Science:* ***Physics***

Honors: *Magna Cum Laude*

**California Institute of Technology**, Pasadena CA *2020*

*Model-Based Systems Engineering Certificate of Completion*